WATER SUPPLY OUTLOOK FOR MONTANA

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

MONTANA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAY 1, 1976

CONTENTS

MONTANA WATER SUPPLY OUTLOOK
May 1, 1976

* *
* All mountainous areas of the state showed increases in *
* snow water content except in the Flathead and Kootenai *
* River drainages. Heavy snowfall, as much as 4 feet, fell *
* on mountain watersheds in areas around Butte, Anaconda, *
* Philipsburg and Boulder and near Red Lodge during the *
* storm near the end of April. *
* *
* Very heavy snowpack persists in the headwaters of the *
* Bitterroot and Clark Fork Rivers west of the divide. Sim-*
* ilar conditions exist in the Boulder and Big Hole River *
* headwaters and throughout most of the Yellowstone National*
* Park. *
* *
* Large runoff is forecast for the Upper Bitterroot, Upper *
* Clark Fork, Big Hole, Boulder, Jefferson and Yellowstone *
* Rivers. *
* *
* Near average runoff is expected in the Flathead, Kootenai,*
* Sun, Teton, Marias, Milk, Beaverhead, Judith and Mussel- *
* shell Rivers. Above average flows are predicted for all *
* other streams. *
* *
* Late season irrigation supplies are expected to be average*
* or above in all drainages. *
* *

COLUMBIA RIVER DRAINAGE

Snow - Heavy snowfall occurred near the end of April in the Upper Clark Fork and Upper Bitterroot areas. Snow melt in the Flathead and Kootenai headwaters was greater than the amount of snow that fell during April.

The current snowpack is less than a year ago but near average in the Kootenai, Flathead and Lower Clark Fork. It is above average in the Bitterroot and Upper Clark Fork. Low elevation melt began in mid-April.

Streamflow - Runoff is forecast near average in the Flathead and Kootenai Rivers and on streams flowing into the lower reaches of the Clark Fork River. Above average flows can be expected from the Blackfoot, Lower Clark Fork and Lower Bitterroot River drainages. High runoff is predicted from streams in the Upper Bitterroot and Upper Clark Fork drainages. With high sustained flows from melting of the large snowpack, considerable stream channel degradation can be expected on the Bitterroot and Clark Fork Rivers.

COLUMBIA RIVER DRAINAGE (CONTD)

Late season irrigation supplies should be above average for most irrigated lands.

MISSOURI RIVER DRAINAGE

Snow - Heavy snowfall occurred near the end of April along the continental divide from Stemple Pass near Helena to Bannock Pass south of Dillon. Large amounts also fell in the vicinity of Yellowstone National Park. Most high elevation snow courses showed increased water content during April. Snow in lower elevations had began to melt but the snowpack was replenished in some areas with the month-end storm. The snowfall pattern is similar to that of previous months. The Big Hole, Boulder, and Upper Madison areas are well above average. Other Missouri headwaters are above average. Near average snow cover is present over most drainages north of the Dearborn River and east of the Smith River. The snowpack is ripe and will resume melting with warmer temperatures.

Streamflow - Runoff will follow the snowfall pattern with large flows in the Big Hole, Boulder and Jefferson Rivers. The Beaverhead River is forecast to have near average runoff along with all streams north of the Dearborn, Judith and Musselshell Rivers. Above average streamflow will be the rule for the Ruby, Madison, Gallatin and Missouri Rivers.

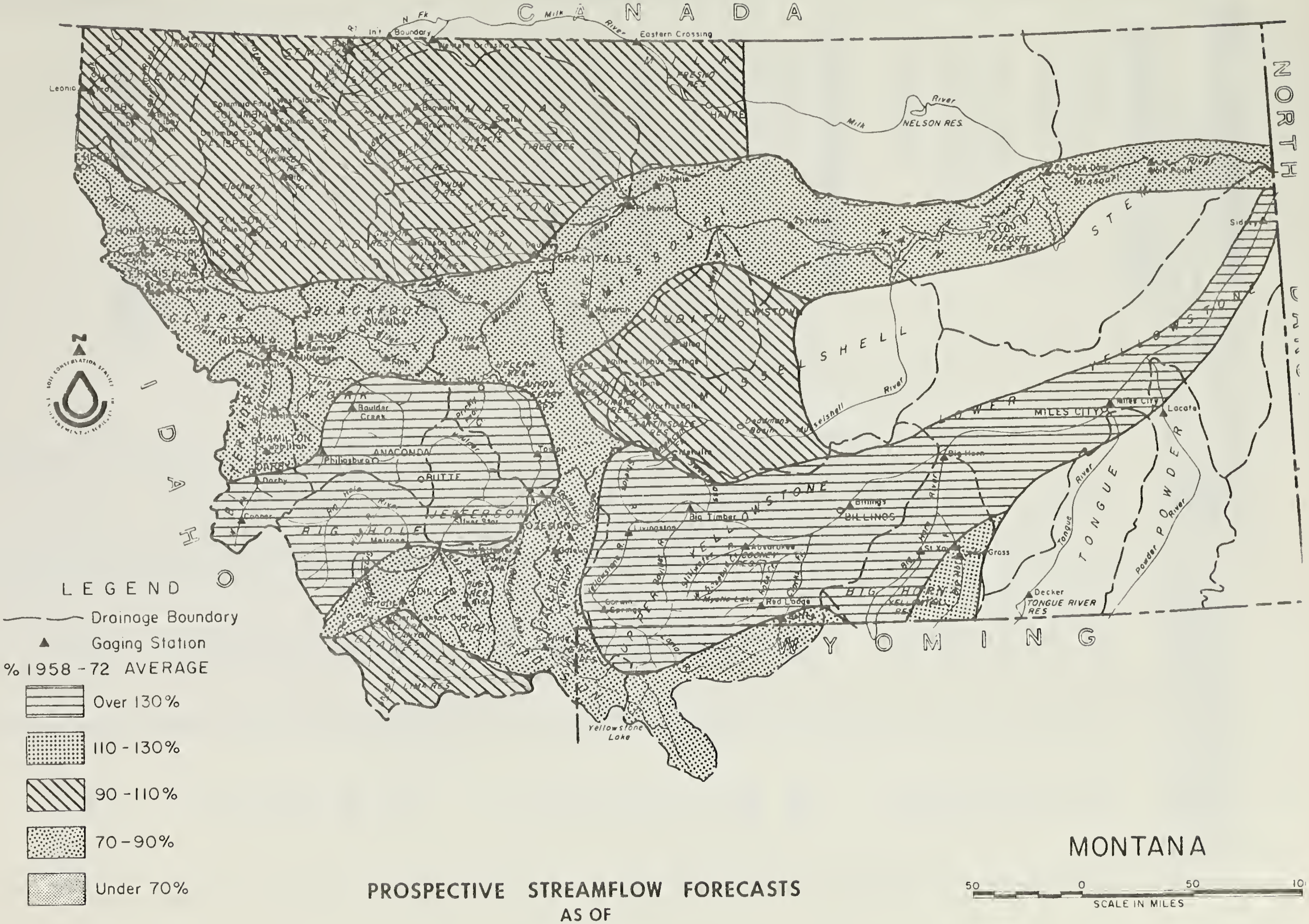
Late season irrigation supplies will be above average from most drainages in the Missouri headwaters and near average elsewhere. Stream channels in the Big Hole, Jefferson and Gallatin River drainages will again be subject to considerable erosion as the large snowpack melts and flows downstream.

YELLOWSTONE RIVER DRAINAGE

Snow - Heavy snowfall occurred near the end of April along the northeast slopes of the Beartooth and Absaroka Mountains. A heavy snowpack continues to persist in and near Yellowstone National Park. Other areas have above average snowpack except for near average pack in the northern part of the Bighorn mountains.

Streamflow - Above average runoff is expected in the Clark's Fork, Little Bighorn and Yellowstone River drainages above Yellowstone Lake. All other drainages will have much above average runoff during the spring and summer months. Late season irrigation supplies are expected to be above average.

Large sustained runoff generated from melting snow will cause considerable bank erosion on the Yellowstone River.

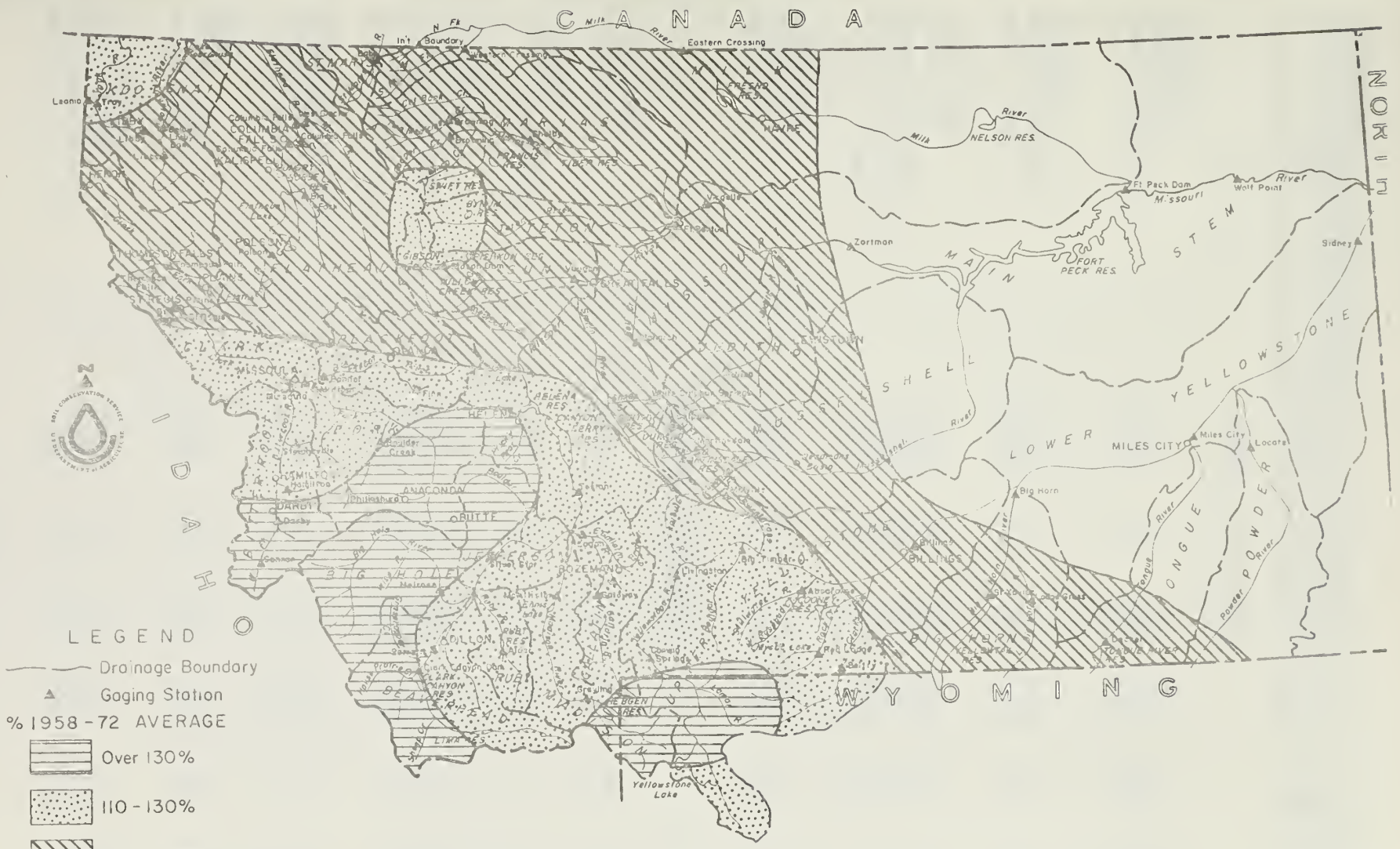


PROSPECTIVE STREAMFLOW FORECASTS
AS OF
MAY 1, 1976

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
COLUMBIA RIVER DRAINAGE			
Kootenai	31	89	105
Flathead	28	84	99
Upper Clark Fork	27	86	123
Lower Clark Fork	14	88	108
Bitterooot	12	92	120
MISSOURI RIVER DRAINAGE			
Jefferson	44	92	130
Madison	20	95	128
Gallatin	14	95	114
Missouri Main Stem	12	87	120
Judith-Musselshell	14	76	95
Marias-Teton-Sun	6	98	118
Milk	2	49	71
YELLOWSTONE RIVER DRAINAGE			
Yellowstone (above Bighorn)	26	105	125
Bighorn	33	94	113
Little Bighorn	7	77	105
Tongue	12	92	111
Powder	6	117	138
SASKATCHEWAN RIVER DRAINAGE			
St. Mary's	7	83	94



MOUNTAIN SNOW WATER EQUIVALENT
AS OF
MAY 1, 1976

U S DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

M7-0-21388-L

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +
COLUMBIA RIVER BASIN							
Kootenai							
Baree Trail	3800	48	7.5	5/04	6.4	6.4	6.6
Murphy Lake R.S.	3000	48	22.6	4/30	20.6	21.6	21.9
Raven	3050	48	23.0	5/04	16.9	17.1	19.0
Flathead							
Desert Mountain	5600	54	8.4	4/30	9.0	6.5	8.6
Marias Pass	5250	54	6.5	4/20	6.4	4.3	6.2
Clark Fork							
Black Pine	7100	48	10.0	4/28	8.5	7.3	7.7
Lubrecht Forest	4100	48	26.8	5/02	24.9	15.9	23.0
Seeley Lake R.S.	4030	48	11.9	5/05	12.6	11.9	11.7
Skalkaho Summit	7260	48	10.8	4/29	10.2	-	9.9
Bitterroot							
Gibbons Pass	7100	48	7.1	4/25	5.4	3.7	5.5
Lolo Pass	5250	48	10.6	4/30	7.6	5.4	7.2
MISSOURI RIVER BASIN							
Beaverhead							
Lakeview	6700	48	15.3	4/30	18.5	9.8	13.6
Madison							
West Yellowstone	6700	48	6.5	5/04	3.4	2.9	3.2
Gallatin							
Bridger Bowl	7250	48	17.0	4/27	15.4	15.9	16.0
College Site No. 2	4856	54	17.7	4/30	19.6	20.1	16.3
Lick Creek	6860	48	18.8	4/28	14.2	15.8	17.4
Twenty-One Mile	7150	48	10.0	4/30	5.2	3.4	4.9
Missouri Main Stem							
Kings Hill	7420	48	11.8	4/29	8.6	7.2	7.1
Stemple Pass	6350	48	5.9	4/28	5.1	4.1	5.0
Milk							
Beaver Creek	3950	48	20.9	5/04	10.0	14.0	15.8
Rocky Boy	4700	36	10.1	5/04	9.6	9.4	9.7
Yellowstone							
Battle Ridge	6020	48	17.6	4/27	13.3	14.4	14.8
Northeast Entrance	7350	48	9.4	5/04	4.9	4.0	7.2
PMC Dryland	3700	48	20.7	5/03	8.6	8.9	-

+ Average for period of record.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average
COLUMBIA RIVER BASIN					
Kootenai	Koocanusa	5,694.0	1,359.0	760.6	-
Flathead	Hungry Horse	3,428.0	2,031.0	1,689.0	2,006.0
	Flathead Lake	1,791.0	1,067.0	648.1	997.9
	Camas (4)	45.2	25.2	22.2	32.5
	Mission Valley (8)	100.3	64.8	34.1	44.0
Clark Fork	Georgetown Lake	31.0	25.6	22.1	23.1
	Lower Willow Creek	4.6	2.9	2.5	2.4
	Nevada Creek	12.6	12.8	5.3	10.0
	Noxon Rapids	334.6	262.1	117.3	138.4
Bitterroot	Como	34.9	25.8	-	19.0
	Painted Rocks	31.7	32.4	0.0	25.9
MISSOURI RIVER BASIN					
Beaverhead	Clark Canyon	328.9	176.9	140.9	148.9
	Lima	84.0	66.9	43.7	51.5
Ruby	Ruby	38.8	36.2	32.8	35.0
Madison	Hebgen Lake	377.5	195.6	228.8	212.6
	Ennis Lake	41.0	35.0	34.4	36.6
Gallatin	Middle Creek	8.0	4.4	3.3	4.5
Missouri	Canyon Ferry	2,043.0	1,449.0	1,268.0	1,552.0
	Hauser & Helena	61.9	62.5	63.0	59.3
	Lake Helena	10.4	10.7	10.9	9.6
	Holter Lake	81.9	79.7	78.6	70.6
	Smith River	10.6		9.6	8.9
	Bair	7.0		7.0	6.3
	Martinsdale	23.1		14.2	10.4
	Deadman's Basin	72.2		58.0	53.0
	Fort Peck Lake	19,140.0	17,440.0	16,490.0	13,470.0
Sun	Gibson	99.0	61.8	63.6	48.8
	Willow Creek	32.2	29.8	25.4	23.4
	Pishkun	32.0	30.1	18.1	23.1
Marias	Lower Two Medicine	11.9		-	-
	Four Horns	19.2		-	-
	Swift	30.0	22.3	12.6	20.6
	Lake Frances	111.9	95.1	38.4	84.6
	Tiber	1,347.0	545.6	553.1	611.2
Milk	Beaver Creek	3.5	2.7	2.5	-
	Fresno	127.2	124.9	123.8	106.5
	Nelson	66.8	51.8	47.5	46.8
	Lake Sherburne	66.2	41.0	21.4	20.7
Yellowstone	Mystic Lake	21.0	1.9	1.0	3.1
	Tongue River	68.0		44.2	35.2
	Cooney	27.4		19.4	16.7
Bighorn	Bighorn Lake	1,356.0	771.4	746.3	783.9

Average based on 1958-72 period.

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
COLUMBIA RIVER DRAINAGE		
Blackfoot River near Bonner	12,000 - 15,000	9,902
Clark Fork River above Missoula	22,000 - 25,000	16,531
Bitterroot River near Darby	8,500 - 10,000	6,650
Clark Fork River below Missoula	42,000 - 50,000	32,373
Clark Fork River at St. Regis	53,000 - 60,000	41,080
N. Fk. Flathead near Columbia Falls	19,000 - 22,000	23,167
M. Fk. Flathead near West Glacier	21,000 - 25,000	25,020
MISSOURI RIVER DRAINAGE		
Big Hole River near Melrose	10,500 - 11,500	8,009
Jefferson River at Sappington	13,000 - 15,000	9,806
Gallatin River near Gateway	6,500 - 7,500	5,369
Gallatin River near Logan	6,500 - 8,000	5,324
Missouri River at Toston	23,000 - 26,000	18,005
Belt Creek near Monarch	1,500 - 2,000	1,742
Marias River near Shelby	6,000 - 7,500	12,720
S. Fk. Musselshell above Martinsdale	750 - 900	745
YELLOWSTONE RIVER DRAINAGE		
Yellowstone River at Livingston	26,000 - 29,000	20,560
Boulder River near Big Timber	6,000 - 7,000	5,100
Stillwater River near Absarokee	7,500 - 9,500	6,261
Clarks Fork River near Belfry	8,000 - 9,500	7,342
Rock Creek near Red Lodge	1,400 - 1,700	1,067
Yellowstone River at Billings	52,000 - 62,000	39,188

*Highly abnormal weather during the critical melting period may cause the peak to be outside the indicated range.

Average based on 1958-72 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average
COLUMBIA RIVER BASIN					
KOOTENAI RIVER					
Libby (near) (2)	7200	103	May-Sept	6127	6980
Below Libby Dam	6200	104	May-July	5030	5941
	4700	104	May-June	3629	4535
FISHER RIVER					
Libby (near)	195	95	May-Sept		205
	180	96	May-July		188
YAAK RIVER					
Troy (near)	465	103	May-Sept		451
	440	103	May-July		428
KOOTENAI RIVER					
Leonia (at) (2)	8500	103	May-Sept	7691	8262
	7400	104	May-July	6444	7146
	5800	103	May-June	4896	5620
FLINT CREEK					
Boulder Creek (below) (3)	84.0	131	May-Sept		64.2
	67.5	139	May-July		48.5
INFLOW LOWER WILLOW CREEK RESERVOIR					
Hall (near)	17.6	130	May-Sept	26.8	13.5
	17.0	133	May-July	25.0	12.8
MIDDLE FORK ROCK CREEK					
Philipsburg (near)	89.0	124	May-Sept		72.2
	80.0	124	May-July		64.7
NEVADA CREEK					
Finn (near)	21.5	124	May-Sept		17.5
	20.0	126	May-July		16.0
BLACKFOOT RIVER					
Bonner (near)	1170	129	May-Sept	1317	905
	1050	130	May-July	1173	809
	910	132	May-June	920	688
CLARK FORK RIVER					
Milltown (above) (4)	920	135	May-Sept	1279	681
	790	137	May-July	1061	579
	650	136	May-June	786	478
CLARK FORK RIVER					
Missoula (above)	2090	132	May-Sept	2597	1586
	1840	133	May-July	2234	1387
	1560	134	May-June	1706	1167

(2) Adjusted for storage in Lake Koocanusa.
(3) Sum Flint Creek at Maxville and Boulder Creek at Maxville.
(4) Difference in observed flow Clark Fork above Missoula and Blackfoot near Bonner.

Average based on 1958-72 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average
WEST FORK BITTERROOT RIVER					
Conner (near) (5)	215	135	May-Sept		160
	195	137	May-July		149
BITTERROOT RIVER					
Darby (near)	700	132	May-Sept	712	528
	650	134	May-July	639	486
	570	134	May-June	478	423
SKALKAHO CREEK					
Hamilton (near)	65.5	122	May-Sept		53.8
	58.0	124	May-July		46.8
BURNT FORK CREEK					
Stevensville (near) (10)	42.5	128	May-Sept		33.3
	37.0	128	May-July		29.0
BITTERROOT RIVER					
Missoula (at) (6)	1780	129	May-Sept		1375
	1650	131	May-July		1260
	1420	131	May-June		1084
CLARK FORK RIVER					
Missoula (below)	3870	131	May-Sept		2961
	3490	132	May-July		2648
	2980	132	May-June		2251
CLARK FORK RIVER					
St. Regis (at)	4900	124	May-Sept	5504	3936
	4400	125	May-July	4788	3517
	3750	125	May-June	3558	2992
NORTH FORK FLATHEAD RIVER					
Columbia Falls (near)	1750	97	May-Sept		1809
	1580	97	May-July		1631
	1320	96	May-June		1369
MIDDLE FORK FLATHEAD RIVER					
West Glacier (near)	1850	106	May-Sept	2288	1740
	1700	107	May-July	2094	1590
	1420	106	May-June	1645	1336
SOUTH FORK FLATHEAD RIVER					
Columbia Falls (near) (7)	2180	103	May-Sept	2445	2120
	2050	103	May-July	2263	1982
	1750	101	May-June	1782	1726

(5) Adjusted for storage in Painted Rocks Reservoir.
(6) Difference in observed flow Clark Fork above and below Missoula.
(7) Adjusted for storage in Hungry Horse Reservoir.
(10) Adjusted for diversion into Sunset Highline Canal.

Average based on 1958-72 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average
FLATHEAD RIVER					
Columbia Falls (at) (7)	6000	104	May-Sept	6630	5784
	5500	104	May-July	6183	5305
	4600	102	May-June	4878	4512
SWAN RIVER					
Big Fork (near)	620	100	May-Sept		622
	540	101	May-July		535
FLATHEAD RIVER					
Polson (near) (8)	7000	102	May-Sept	7645	6841
	6400	102	May-July	6893	6269
	5300	100	May-June	5381	5302
CLARK FORK RIVER					
Plains (near) (8)	12300	110	May-Sept	13594	11182
	11180	111	May-July	12035	10103
	9300	109	May-June	9162	8514
THOMPSON RIVER					
Thompson Falls (near)	250	109	May-Sept		229
	220	110	May-July		200
PROSPECT CREEK					
Thompson Falls (at)	130	112	May-Sept		116
	120	112	May-July		107
CLARK FORK RIVER					
Whitehorse Rapids (at) (9)	13600	110	May-Sept		11048
	12300	111	May-July		10012
	10200	109	May-June		8196

(7) Adjusted for storage in Hungry Horse Reservoir.
(8) Adjusted for storage in Hungry Horse Reservoir and Flathead Lake.
(9) Adjusted for storage in Hungry Horse, Flathead Lake, and Noxon Rapids Reservoirs.

Average based on 1958-72 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average
MISSOURI RIVER BASIN					
BEAVERHEAD RIVER					
Grant (near) (11) (12)	107	101	May-Sept	276	106
	90	102	May-July	229	88.3
RUBY RIVER					
Alder (near)	101	120	May-Sept		84.5
	85	121	May-July		70.0
BIG HOLE RIVER					
Melrose (near)	950	143	May-Sept		665
	865	142	May-July		610
BIRCH CREEK					
Glen (near)	16.8	128	May-Sept		13.1
	14.0	128	May-July		10.9
BOULDER RIVER					
Boulder (near)	110	137	May-Sept	179	80.5
	105	138	May-July	164	76.2
WILLOW CREEK					
Harrison (near)	22.5	134	May-Sept		16.8
	20.0	134	May-July		14.9
MADISON RIVER					
Grayling (near) (13)	535	126	May-Sept	477	425
	420	132	May-July	360	319
MADISON RIVER					
McAllister (near) (14)	920	125	May-Sept	902	734
	735	132	May-July	697	558
GALLATIN RIVER					
Gateway (near)	620	122	May-Sept		507
	530	126	May-July		422

(11) Adjusted for storage in Lima Reservoir.
(12) Adjusted for storage in Clark Canyon Reservoir.
(13) Adjusted for storage in Hebgen Lake.
(14) Adjusted for storage in Hebgen and Ennis Lakes.

Average based on 1958-72 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average
HYALITE CREEK					
Bozeman (near) (15)	51.5	124	May-Sept		41.5
	44.3	125	May-July		35.5
GALLATIN RIVER					
Logan (at)	670	133	May-Sept		505
	575	137	May-July		420
MISSOURI RIVER					
Toston (at) (16)	2800	133	May-Sept	3580	2104
	2400	135	May-July	2985	1781
SHEEP CREEK					
White Sulphur Springs (near)	20.5	105	May-Sept	27.8	19.5
	17.5	104	May-July	24.1	16.8
SUN RIVER					
Gibson Dam (at) (17)	600	108	May-Sept	812	556
	550	108	May-July	748	507
BELT CREEK					
Monarch (near)	135	117	May-Sept		115
	125	119	May-July		105
MISSOURI RIVER					
Fort Benton (at) (18)	4100	127	May-Sept		3227
	3500	132	May-July		2660
TWO MEDICINE CREEK					
Browning (near) (19)	235	104	May-Sept		226
	225	106	May-July		213
BADGER CREEK					
Browning (near)	128	108	May-Sept		119
	110	108	May-July		102
MARIAS RIVER					
Shelby (near) (20)	520	107	May-Sept	1123	486
	500	108	May-July	1055	464

(15) Adjusted for storage in Middle Creek Reservoir.
(16) Adjusted for storage in Hebgen and Ennis Lakes and Clark Canyon Reservoir.
(17) Adjusted for storage in Gibson Reservoir and diversions.
(18) Adjusted for storage in Canyon Ferry Reservoir.
(19) Adjusted for storage in Two Medicine Reservoir and diversions into Two Medicine Canal.
(20) Adjusted for storage in Two Medicine, Four Horns, Lake Frances, and Swift Reservoirs.

Average based on 1958-72 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average
MISSOURI RIVER					
Virgelle (at) (21)	4800	126	May-Sept		3799
	4100	128	May-July		3199
SOUTH FORK JUDITH RIVER					
Utica (near)	13.5	97	May-Sept		13.9
	12.5	98	May-July		12.7
MISSOURI RIVER					
Landusky (near) (21)	5200	125	May-Sept		4150
	4500	128	May-July		3512
NORTH FORK MUSSELSHELL RIVER					
Delpine (near)	5.0	98	May-Sept		5.1
	4.1	98	May-July		4.2
SOUTH FORK MUSSELSHELL RIVER					
Martinsdale (above)	48.0	108	May-Sept		44.5
	46.0	110	May-July		41.7
MISSOURI RIVER					
Fort Peck Dam (below) (22)	5000	127	May-Sept		3936
	4400	129	May-July		3407
MILK RIVER					
Eastern Crossing (at)	200	90	May-Sept		221
MISSOURI RIVER					
Wolf Point (near) (22)	5300	129	May-Sept		4105
	4650	130	May-July		3567
MISSOURI RIVER					
Williston, N.D. (near) (29)	13500	130	May-Sept		10352
	11800	134	May-July		8787
SASKATCHEWAN RIVER BASIN					
ST. MARY RIVER					
Babb (near) (30)	475	102	May-Sept		466
	410	103	May-July		399

(21) Adjusted for storage in Canyon Ferry and Tiber Reservoirs.
(22) Adjusted for storage in Canyon Ferry, Tiber, and Fort Peck Reservoirs.
(29) Adjusted for storage in Canyon Ferry, Tiber, Fort Peck, Buffalo Bill, Boysen, and Yellowtail Reservoirs. Sum Yellowstone River near Sidney and Missouri River near Culbertson.
(30) Adjusted for storage in Lake Sherburne.

Average based on 1958-72 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
YELLOWSTONE RIVER BASIN					
YELLOWSTONE RIVER					
Corwin Springs (at)	2550	133	May-Sept	2096	1915
	2150	136	May-July	1678	1581
YELLOWSTONE RIVER					
Livingston (near)	2950	133	May-Sept		2212
	2450	135	May-July		1821
BOULDER RIVER					
Big Timber (at)	500	136	May-Sept		367
	470	139	May-July		338
STILLWATER RIVER					
Absarokee (near) (25)	760	133	May-Sept		571
	640	135	May-July		474
CLARKS FORK RIVER					
Belfry (near)	750	128	May-Sept		585
	670	128	May-July		524
ROCK CREEK					
Red Lodge (near)	145	134	May-Sept	138	108
	110	135	May-July	108	81.7
INFLOW COONEY RESERVOIR					
Boyd (near)	59.0	131	May-Sept		45.1
	46.0	133	May-July		34.7
YELLOWSTONE RIVER					
Billings (at)	5450	136	May-Sept	6145	4016
	4660	138	May-July	5282	3383
BIGHORN RIVER					
St. Xavier (near) (26)	2350	136	May-Sept	2366	1724
	2180	138	May-July	2335	1580
LITTLE BIGHORN RIVER					
Lodgegrass (near) (28)	150	113	May-Sept		132
	130	113	May-July		115
YELLOWSTONE RIVER					
Miles City (at) (27)	7700	130	May-Sept		5931
	6800	133	May-July		5108
YELLOWSTONE RIVER					
Sidney (near) (27)	8000	131	May-Sept		6138
	7100	132	May-July		5367

(25) Adjusted for storage in Mystic Lake.
(26) Adjusted for storage in Buffalo Bill, Boysen, Bull Lake, and Yellowtail Reservoirs.
(27) Adjusted for storage in Buffalo Bill, Boysen, and Yellowtail Reservoirs.
(28) Sum Little Bighorn below Pass Creek and Lodgegrass Creek near Wyola.

Average based on 1958-72 period.

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average
ABUNDANCE LAKE	8800	4/29	98	35.2	30.8	23.0
AMBROSE	6480	4/28	56	17.4	20.4	13.9
ARCH FALLS	7350	4/28	61	19.8	20.5	16.2
BADGER PASS	6900	5/02	118	56.9	54.0	46.2
BALD EAGLE PEAK	5700	4/28	150	67.7	73.7	69.3
BALD RIDGE	7500	4/30	46	15.7	20.0	14.6
BANFIELD MOUNTAIN	5600	4/29	59	26.3	32.1	23.7
BANFIELD MOUNTAIN PILLOW	5600	4/29	SP	23.0	28.4	20.9
BAREE CREEK	5500	5/03	113	56.2	61.4	49.6
BAREE MIDWAY	4600	5/03	78	37.1	47.8	35.1
BAREE TRAIL	3800	5/03	1	.3	10.3	1.2
BASIN CREEK	7180	5/03	55	17.8	-	-
BASSOO PEAK	5150	4/30	14	5.1	14.0	8.5
BATTLE RIDGE	6020	4/27	24	3.9	11.3	5.4
BEAR BASIN	8150	4/29	76	29.0	30.6	24.9
BEAVER LAKE	5900	5/02	73	30.3	30.0	25.7
BERRY MEADOW	7000	4/26	28	8.0	15.2	9.2
BIG COULEE	5100	4/28	20	4.1	12.8	-
BIG CREEK	6750	4/28	113	48.3	50.9	54.5
BIG SKY	7700	4/29	59	21.8	22.0	20.4
BIG SKY MEADOW	6350	4/29	22	8.2	11.5	3.3
BIG SNOWY	7150	4/30	66	22.2	32.5	24.9
BIG SPRINGS (ID)	6500	4/29	50	20.3	24.2	-
BLACK BEAR	7950	4/30	121	54.6	51.0	-
BLACK BEAR PILLOW	7950	4/30	SP	46.1	45.4	-
BLACK PINE	7100	4/28	63	21.1	19.1	14.3
BLACK PINE PILLOW	7100	4/28	SP	24.2	22.2	15.2
BLOODY DICK	7600	4/29	60	21.2	20.3	14.2
BLUE LAKE	5900	5/02	77	35.4	33.0	26.5
BOTS SOTS	8000	5/03	34	12.0	13.7	-
BOULDER MOUNTAIN	7950	4/28	81	28.6	26.7	22.2
BOX CANYON	6670	4/30	43	18.0	-	-
BRANHAM LAKES	8850	4/30	104	43.0	40.6	36.6
BRIDGER BOWL	7250	4/27	101	35.7	31.1	35.1
BRIDGER BOWL PILLOW	7250	4/27	SP	35.1	31.8	34.0
BRISTOW CREEK	3900	4/29	1	.4	8.3	2.3
BRUSH CREEK TIMBER	5000	4/29	22	8.1	11.9	[illegible].2
BULL MOUNTAIN	6600	4/30	20	5.4	11.4	-
CALL ROAD	8050	4/29	56	17.6	19.6	13.9
CALVERT CREEK	6450	4/28	37	14.1	16.6	9.2
CALVERT CREEK PILLOW	6450	4/28	0	7.1	-	-
CAMP MISERY	6400	4/26	125	51.2	56.8	52.3
CAMP SENIA	7890	5/03	43	12.6	11.4	9.6
CANYON (WY)	7750	4/29	57	21.8	18.2	14.6
CARROT BASIN	9000	4/29	117	46.6	50.5	43.4
CARROT BASIN PILLOW	9000	4/29	SP	38.5	33.3	-
CEDAR GROVE	4100	4/28	25	10.8	13.6	6.8
CHESSMAN RESERVOIR	6200	5/01	16	5.0	11.5	2.5

Average based On 1958-72 period. A - Aeriol observation; water content estimated.
SP - Snow Pillow observation; water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches) Last Year	PAST RECORD: Water Content (inches) Average
CLOVER MEADOW	8600	4/29	78	26.0	29.2	20.9
COLE CREEK	7850	4/29	88	30.2	26.4	-
COLE CREEK PILLOW	7850	4/29	SP	27.1	24.5	-
COLLEY CREEK	6300	4/30	22	7.7	13.7	-
COMBINATION	5600	4/28	28	6.4	9.7	5.9
COMBINATION PILLOW	5600	4/28	SP	7.1	10.3	-
COOKE STATION	8150	4/29	74	30.4	24.9	22.0
COPPER BOTTOM	5200	4/30	25	7.5	12.7	6.6
COPPER BOTTOM PILLOW	5200	4/30	0	13.5	-	-
COPPER CAMP	6950	4/30	88	36.8	35.5	36.6
COPPER CAMP PILLOW	6950	4/30	0	45.3	-	-
COPPER CREEK	5700	4/30	42	12.1	18.2	12.4
COPPER LAKE CREEK	6100	4/30	71	25.1	30.5	25.5
COPPER MOUNTAIN	7700	4/30	40	15.5	20.8	12.5
COYOTE HILL	4200	4/28	7	1.9	10.5	3.5
CRYSTAL LAKE	6100	4/30	26	7.3	20.9	16.2
DAD CREEK LAKE	8400	4/29	85	24.0	23.9	17.6
DAISY PEAK	7600	4/29	55	14.7	14.4	12.4
DALY CREEK	5780	4/27	56	18.0	17.9	-
DARKHORSE LAKE	8600	4/29	106	43.0	41.0	29.4
DAVIS CREEK	5400	4/27	57	24.5	31.5	24.2
DEADMAN CREEK	6450	4/29	31	8.8	15.2	10.6
DEADMAN CREEK PILLOW	6450	4/29	SP	6.7	13.6	8.2
DESERT MOUNTAIN	5600	4/30	44	16.6	17.6	15.2
DEVILS SLIDE	8100	4/28	94	32.5	33.4	28.6
DISCOVERY BASIN	7050	4/30	43	12.4	18.8	-
DIVIDE	7800	4/29	39	13.2	17.8	11.5
DIX HILL	6400	5/01	20	6.0	16.1	-
EAST FORK R.S.	5400	4/29	0	.0	8.0	-
ELK HORN SPRINGS	7800	4/30	41	14.3	13.9	9.1
ELK PEAK	8000	4/28	81	23.2	26.2	22.1
EMERY CREEK	4350	4/30	29	11.1	-	-
FATTY CREEK	5500	4/28	63	23.4	29.3	25.0
FISH CREEK	8000	5/03	60	20.1	-	-
FISHER CREEK	9100	4/29	128	53.2	47.2	42.4
FISHER CREEK PILLOW	9100	4/29	SP	50.1	45.6	38.9
FIVE-BULL	5700	5/02	18	4.3	10.0	5.1
FLEECER RIDGE	7500	4/30	48	16.3	17.2	-
FOOLHEN	8280	4/29	80	27.5	24.1	19.9
FOUR MILE	6900	4/30	45	13.8	15.6	8.8
FREIGHT CREEK	6000	5/02	56	20.2	19.0	15.9
FROHNER MEADOWS	6480	4/29	42	8.7	16.8	-
FROHNER MEADOWS PILLOW	6480	4/29	SP	8.7	16.2	-
GARVER CREEK	4250	4/27	8	3.9	11.2	5.4
GARVER CREEK PILLOW	4250	4/27	SP	4.4	10.1	5.1
GIBBONS PASS	7100	4/29	44	14.6	33.9	24.2
GOLD STONE	8100	4/29	78	27.4	26.1	19.4
GRASSHOPPER	7000	4/28	32	5.6	10.2	5.9
GRAVE CREEK	4300	4/26	39	15.7	18.0	16.3
GRAVE CREEK PILLOW	4300	4/26	0	14.5	-	-

Average based On 1958-72 period. A - Aerial observation; water content estimated.
SP - Snow Pillow observation; water content only.

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
GRIFFIN CREEK DIVIDE	5150	4/28	19	6.4	16.0	8.6
GRIZZLY PEAK	8400	4/29	84	26.5	25.1	21.1
GUNSIGHT LAKE	6300	5/02	107	50.8	52.0	45.4
HAND CREEK	5030	4/29	24	8.1	-	-
HAWKINS LAKE	6450	4/27	98	41.0	40.5	35.4
HAWKINS LAKE PILLOW	6450	4/27	SP	40.7	36.1	33.2
HEART LAKE TRAIL	4800	4/28	49	20.9	30.2	19.0
HEBGEN DAM	6550	4/28	33	14.3	19.5	6.6
HELL ROARING DIVIDE	5770	4/28	76	33.2	39.2	34.3
HIGHWOOD STATION	4600	4/26	20	3.8	9.7	-
HOLBROOK	4530	4/28	9	3.4	8.7	1.9
HOOD MEADOW	6600	4/28	51	17.1	17.2	11.6
HOODOO BASIN	6000	4/28	140	64.0	60.8	55.2
HOODOO BASIN PILLOW	6000	5/01	SP	56.2	55.7	55.5
HOODOO CREEK	5900	4/28	126	56.4	57.6	52.2
ICEBERG LAKE #3	5600	4/29	84	35.9	43.7	33.5
INDEPENDENCE	7850	4/30	60	24.3	26.5	19.8
INTERGAARD	6450	5/01	43	14.6	16.2	9.1
ISLAND PARK (ID)	6310	4/29	43	17.4	21.4	10.2
JAHNKE LAKE TRAIL	7200	4/29	48	16.4	16.4	8.3
JOHNSON PARK	6450	4/29	13	2.5	8.5	3.3
JOSEPHINE LOWER #9	4900	4/28	44	17.6	23.6	18.9
KINGS HILL	7500	4/29	63	19.0	20.9	17.1
LAKE CREEK	6100	4/30	15	6.0	11.3	2.7
LAKEVIEW CANYON	5930	4/30	43	13.6	19.7	12.2
LAKEVIEW RIDGE	7400	4/30	38	12.3	16.2	10.[illegible]
LEMHI PASS	7480	4/29	43	14.4	16.[illegible]	-
LEMHI RIDGE	8100	4/29	50	15.5	19.6	-
LICK CREEK	6960	4/28	43	13.4	16.[illegible]	11.1
LICK CREEK PILLOW	6860	4/28	SP	12.6	15.2	10.7
LITTLE PARK	7400	4/29	62	22.7	22.2	15.5
LOGAN CREEK	4300	4/29	4	1.6	8.0	2.7
LOLO PASS (ID)	5230	4/29	80	35.6	37.8	32.3
LONE MOUNTAIN	8880	4/29	88	32.1	31.9	30.6
LOOKOUT (ID)	5250	4/29	88	39.[illegible]	45.[illegible]	37.7
LOST HORSE	5940	4/26	112	46.[illegible]	44.9	34.5
LOST SOUL	4800	4/29	28	11.4	17.1	[illegible]
LOWER TWIN	7900	4/30	83	33.[illegible]	31.0	26.[illegible]
LUBRECHT FOREST # 3	5450	5/02	7	2.5	10.0	4.0
LUPINE CREEK (WY)	7300	4/29	39	13.5	11.6	7.7
MADISON PLATEAU	7750	4/30	72	31.8	29.0	22.4
MADISON PLATEAU PILLOW	7750	4/30	SP	32.[illegible]	30.0	23.7
MARIAS PASS	5250	4/28	43	14.[illegible]	20.2	19.[illegible]
MAYNARD CREEK	5210	4/27	65	20.7	20.8	21.[illegible]
MAYNARD CREEK PILLOW	6210	4/27	SP	14.2	14.[illegible]	14.1
MIDDLE MILL CREEK	7850	4/30	56	21.0	24.6	16.4
MILL CREEK	7500	4/30	44	17.8	20.8	16.5
MINERAL CREEK	4000	4/30	24	10.[illegible]	18.2	14.1
MONUMENT PEAK	8800	4/30	99	41.[illegible]	38.5	31.6
MOUNT ALLEN # 7	5700	4/28	107	46.1	52.1	55.1

Average based on 1958-72 period. A - Aerial observation; water content estimated.
SP - Snow Pillow observation; water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (Inches)	THIS YEAR: Water Content (Inches)	PAST RECORD: Water Content (inches): Last Year	PAST RECORD: Water Content (inches): Average
MUDD LAKE	7650	4/28	60	23.8	26.8	23.5
NEZ PERCE CAMP	5580	4/29	37	14.5	21.7	12.5
NEZ PERCE CREEK	6500	4/30	19	5.7	11.6	3.5
NEZ PERCE PASS	6570	4/29	51	21.4	28.0	15.6
NOISY BASIN	6040	4/26	121	48.8	53.6	-
NOISY BASIN PILLOW	6040	4/26	SP	45.6	44.8	-
NOISY CREEK	5600	4/26	0	.0	-	-
NORRIS BASIN (WY)	7500	4/30	34	13.4	12.4	8.0
NORTH FK. ELK CREEK	6250	5/02	34	13.4	21.9	11.8
NORTH FORK JOCKO	6330	4/28	114	51.9	56.7	51.3
NORTH MEADOW	7500	4/30	58	16.2	15.7	11.5
NORTHEAST ENTRANCE	7400	4/28	38	13.0	11.3	7.8
NORTHEAST ENTRANCE PILL.	7400	4/26	SP	13.8	11.9	6.2
NOTCH	8500	4/29	77	23.6	30.8	18.5
OPHIR PARK	7150	5/01	70	26.8	26.6	-
PALISADE CREEK	8250	4/28	96	39.0	36.8	34.2
PEIGAN PASS #6	5500	4/28	92	39.8	45.5	43.1
PETERSON MEADOWS	7200	4/29	65	18.5	16.3	11.9
PETERSON MEADOWS PILLOW	7200	4/29	SP	19.7	18.6	-
PICKET PIN LOWER	6200	5/02	9	2.0	6.8	-
PICKET PIN MIDDLE	7250	5/02	48	21.4	27.3	-
PICKET PIN UPPER	8100	5/02	84	36.0	31.2	-
PICNIC GROUNDS	6200	5/01	15	3.7	7.6	2.8
PIPESTONE PASS	7200	4/30	41	12.1	14.0	6.1
POORMAN CREEK	5100	4/28	77	35.0	40.8	33.2
POORMAN CREEK PILLOW	5100	4/28	SP	34.8	40.5	31.4
PORCUPINE R.S.	6500	4/30	29	9.2	13.2	8.0
POTOMAGETON PARK	7150	4/29	39	15.9	20.0	12.0
PTARMIGAN #8	5800	4/29	105	43.7	46.4	42.0
RED MOUNTAIN	6000	4/29	55	22.3	25.3	21.0
ROCK CREEK	5600	4/30	20	4.8	17.0	10.4
ROCK CREEK MEADOWS	8160	4/29	87	28.8	-	-
ROCKER PEAK	8000	4/29	73	23.2	23.6	18.0
ROCKER PEAK PILLOW	8000	4/29	SP	24.9	23.0	20.1
ROCKY BOY	4700	4/29	0	.0	9.7	1.5
ROCKY BOY PILLOW	4700	4/29	SP	.0	11.3	2.9
SACAJAWEA	6550	4/27	65	19.9	20.8	14.3
SADDLE MOUNTAIN	7940	4/25	92	37.7	38.9	28.9
SADDLE MOUNTAIN PILLOW	7940	4/25	SP	36.6	37.6	30.2
SAWTELL MOUNTAIN (ID)	8710	4/29	99	36.8	43.4	38.1
SENTINEL CREEK	8300	4/29	75	28.9	31.6	26.1
SHOWER FALLS	6100	4/26	100	35.3	36.6	28.7
SHOWER FALLS PILLOW	8100	4/28	SP	35.4	35.6	32.2
SILVER RUN	6630	4/29	24	5.4	8.6	-
SKALKAHO SUMMIT	7260	4/29	86	35.1	36.4	28.0
SLAG-A-MELT LAKE	8750	4/29	100	40.9	38.1	29.1
SLIDE ROCK MOUNTAIN	7100	5/03	65	26.6	25.8	20.0
SMUGGLER MINE	6960	4/30	35	12.3	16.6	11.6
SOUTH FORK SHIELDS	8100	4/30	91	33.2	32.8	30.0
SPOTTED BEAR MOUNTAIN	7000	5/02	31	11.8	19.0	11.8

Average based On 1958-72 period. A - Aerial observation; water content estimated.
SP - Snow Pillow observation; water content only.

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	Elevation	THIS YEAR Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD Water Content (inches) Last Year	Average
SPUR PARK	8000	4/29	77	26.0	28.0	26.0
SPUR PARK PILLOW	8100	4/29	SP	27.8	27.7	25.8
STAHL PEAK	6050	4/26	106	44.5	45.2	44.3
STAHL PEAK PILLOW	6050	4/26	0	35.1	-	-
STEMPLE PASS	6600	5/03	45	15.0	19.1	11.9
STORM LAKE	7780	4/30	76	27.8	22.7	17.4
STUART MILL	6500	5/01	21	7.2	11.9	6.7
STUART MOUNTAIN	7400	5/03	82	38.3	41.5	35.9
SYLVAN PASS (WY)	7100	4/29	46	18.3	16.7	11.1
TARGHEE PASS (ID)	7000	4/29	42	15.9	17.3	15.4
TEN MILE LOWER	6600	4/30	38	10.6	14.2	6.0
TEN MILE MIDDLE	6800	4/30	65	19.5	19.5	13.8
TEN MILE UPPER	8000	4/29	73	22.6	22.2	17.1
TEPEE CREEK	8000	4/30	64	21.0	24.6	18.0
TEPEE CREEK PILLOW	8000	4/30	SP	17.3	19.9	-
TIMBERLINE CREEK	8850	5/03	73	24.1	22.6	19.8
TRINKUS LAKE	6100	5/02	90	41.9	53.0	49.4
TV MOUNTAIN	6800	5/01	64	25.0	26.3	21.9
TWELVEMILE CREEK	5600	4/26	58	23.3	28.9	15.6
TWELVEMILE CREEK PILLOW	5600	4/26	SP	22.4	27.3	14.5
TWENTY-ONE MILE	7150	4/28	53	21.8	25.4	17.6
TWIN CREEKS	3580	5/02	0	.0	15.0	1.8
TWIN LAKES	6510	4/26	135	57.0	52.3	46.8
TWIN LAKES PILLOW	6400	4/26	SP	54.5	52.6	44.6
UPPER HOLLAND LAKE	6200	5/02	91	43.1	45.0	41.1
VALLEY VIEW (ID)	6500	4/29	39	16.0	22.5	14.2
WEASEL DIVIDE	5450	4/26	89	36.4	38.3	37.2
WEST YELLOWSTONE	6700	4/29	36	15.2	13.1	7.2
WEST YELLOWSTONE PILLOW	6700	4/30	SP	11.2	10.1	6.5
WHISKEY CREEK	6800	4/29	53	26.4	25.4	20.3
WHISKEY CREEK PILLOW	6800	4/30	SP	23.1	21.4	-
WHITE ELEPHANT (ID)	7700	4/29	73	30.2	31.7	-
WHITE MILL	8700	4/29	101	38.6	32.6	30.0
WHITE MILL PILLOW	8700	4/29	SP	34.9	31.2	-
WHITE PINE RIDGE	8850	4/29	45	12.6	12.5	5.0
WILLOW CREEK	6500	4/29	24	6.7	12.5	-
WOLVERINE (WY)	7650	4/29	50	18.8	15.4	-

LATE ARRIVING DATA

EAST BOULDER S	9250	5/01	99	42.5A	44.0	-
NORTH FK. ELK CREEK PILL	6250	5/02	SP	13.2	24.3	11.5
PETERSON MEADOWS PILLOW	7200	4/29	SP	19.7	18.6	-
PICKET PIN D	9450	5/01	101	42.5A	38.0	-
PLACER BASIN F	8800	5/01	81	34.0A	33.0	-
STAR LAKE E	9650	5/01	129	54.0	49.5	-
FRED BURR PASS	8000	5/06	94	38.3	33.0	32.6

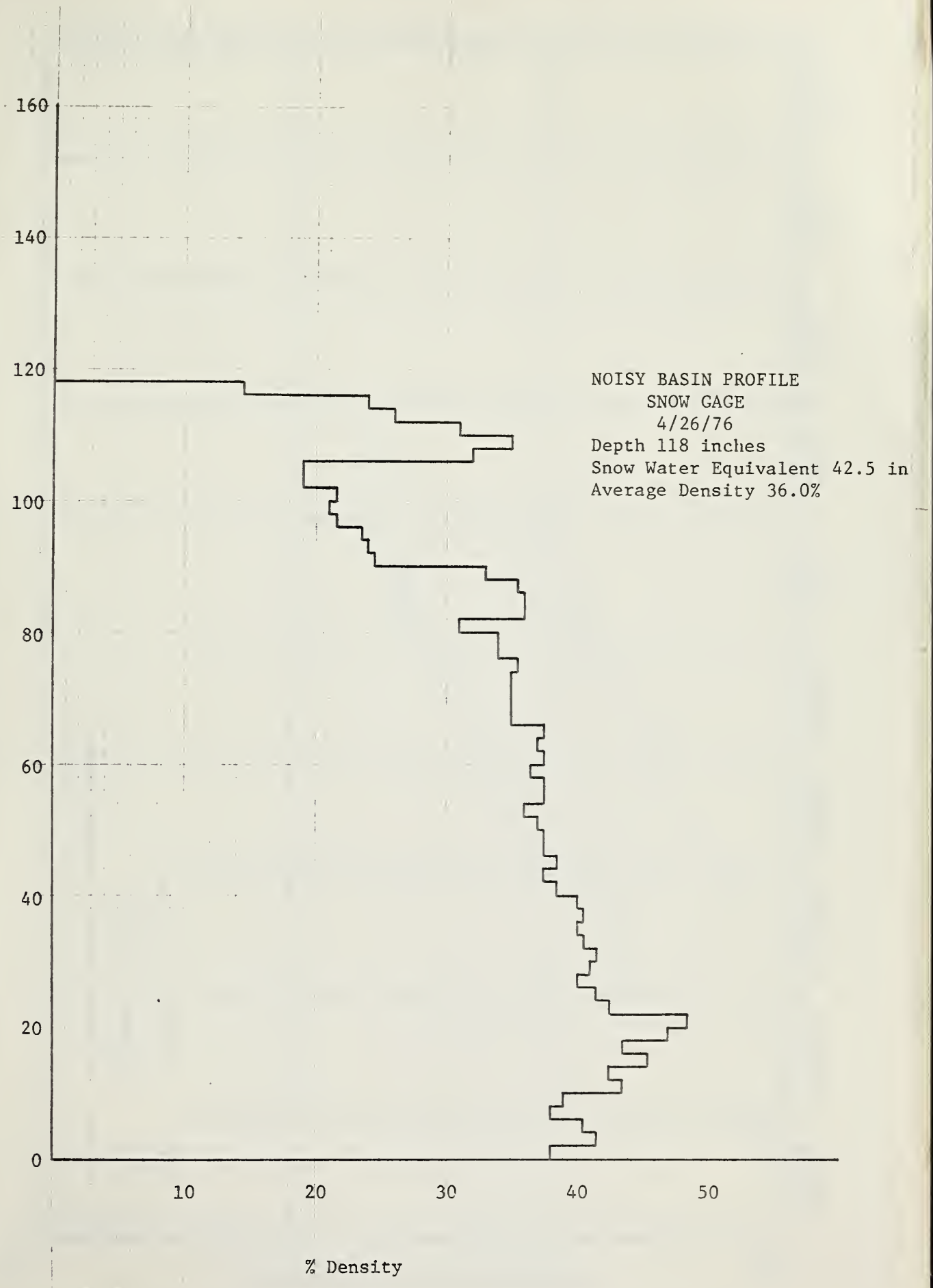
Continued on 20A

Average based On 1958-72 period. A - Aeriol observation; water content estimated.
SP - Snow Pillow observation; water content only.

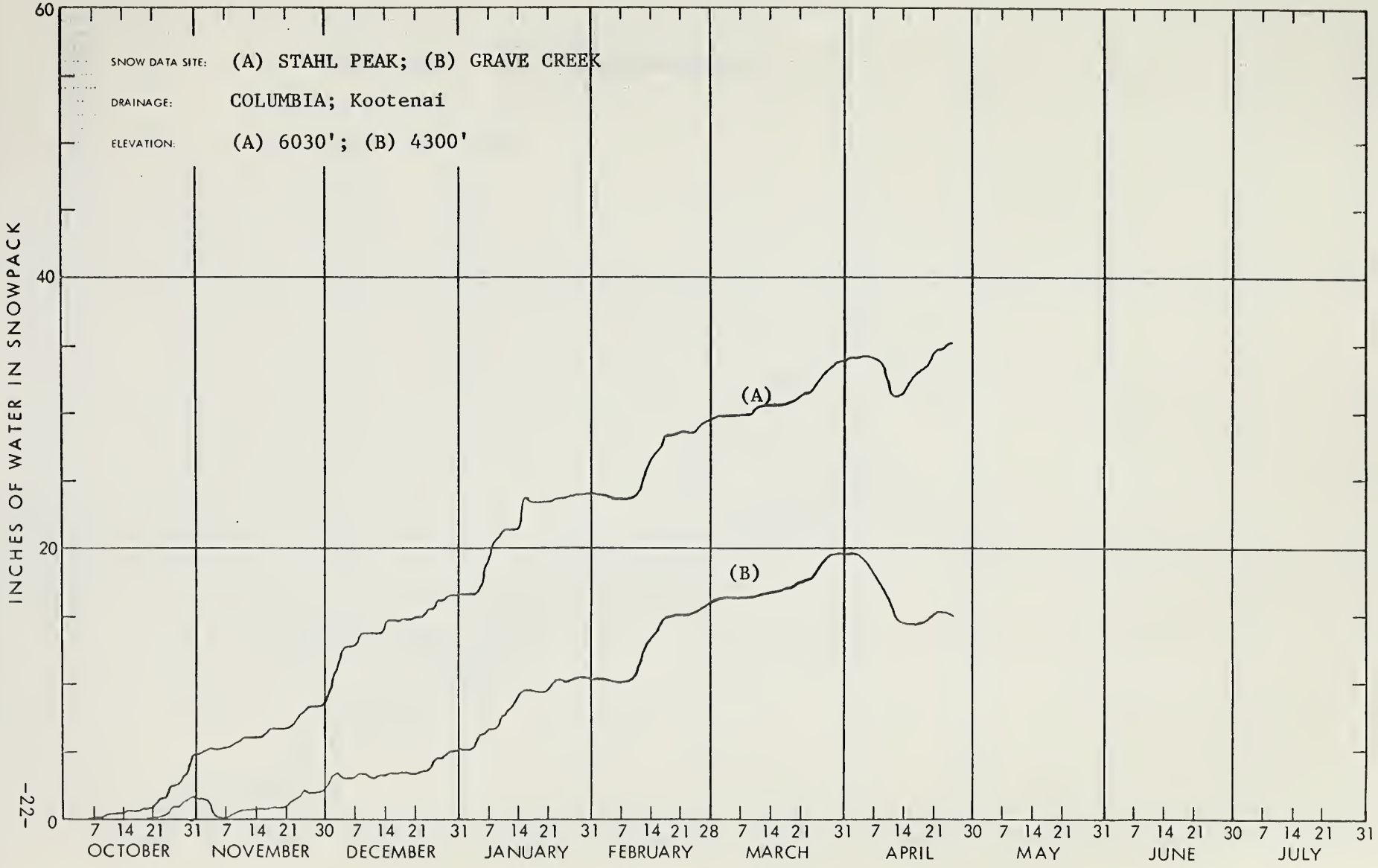
SNOW

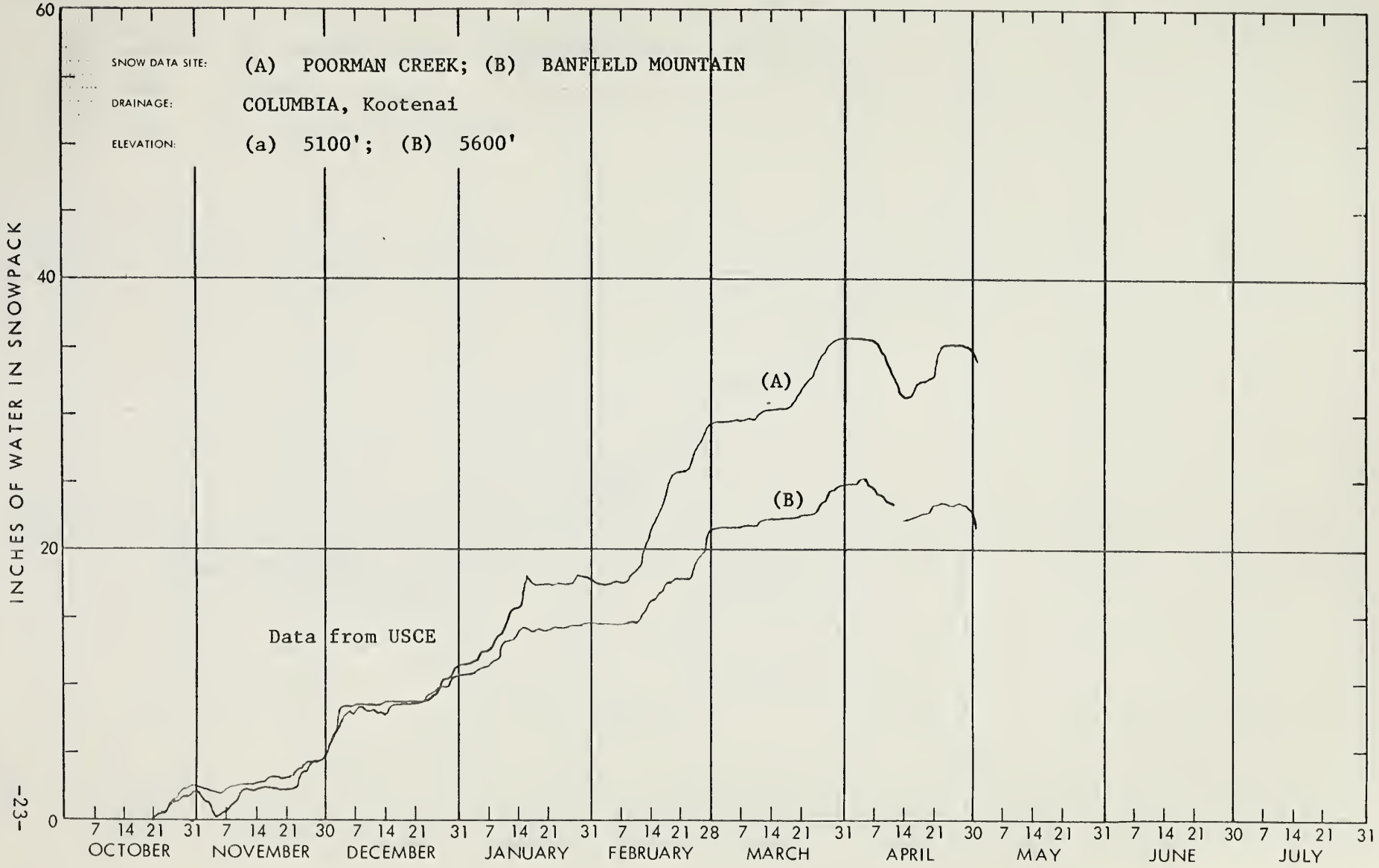
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
LATE ARRIVING DATA (CONTD)						
CABIN CREEK	5200	5/01	0	0.0	5.6	2.2
GOAT MOUNTAIN	7000	5/05	34	10.8	13.2	10.9
MOUNT LOCKHART	6400	5/06	68	29.8	24.0	25.4
MOUNT LOCKHART PILLOW	6400	5/06	SP	29.5	-	23.5
WALDRON	5600	5/06	11	3.8	11.2	7.5
WALDRON PILLOW	5600	5/06	SP	7.9	10.8	10.2
WRONG CREEK	5700	5/02	29	10.6	15.2	11.9
WRONG RIDGE	6800	5/02	57	23.4	22.4	22.2

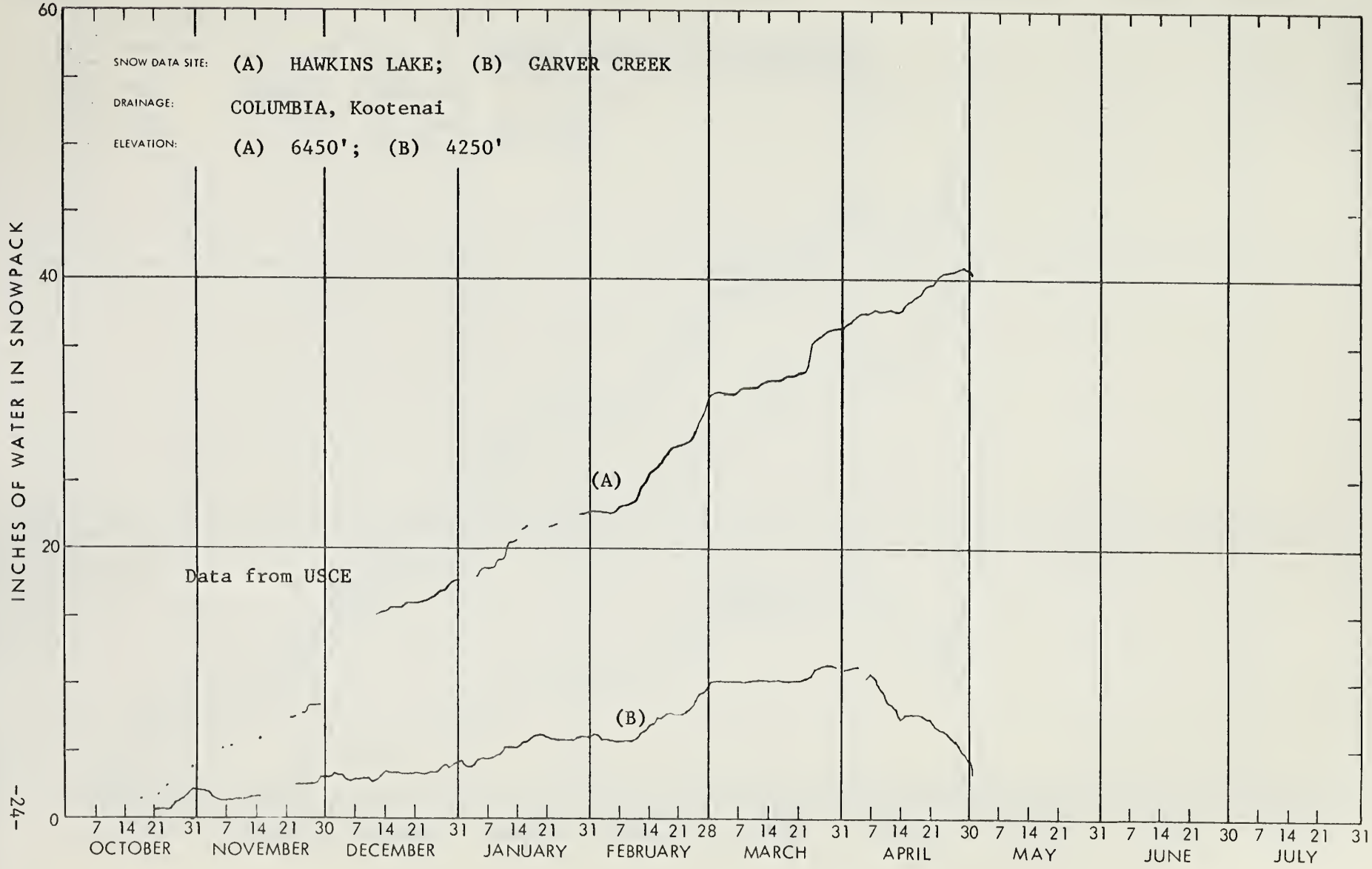
Average based On 1958-72 period. A - Aerial observation; water content estimated.
SP - Snow Pillow observation; water content only.

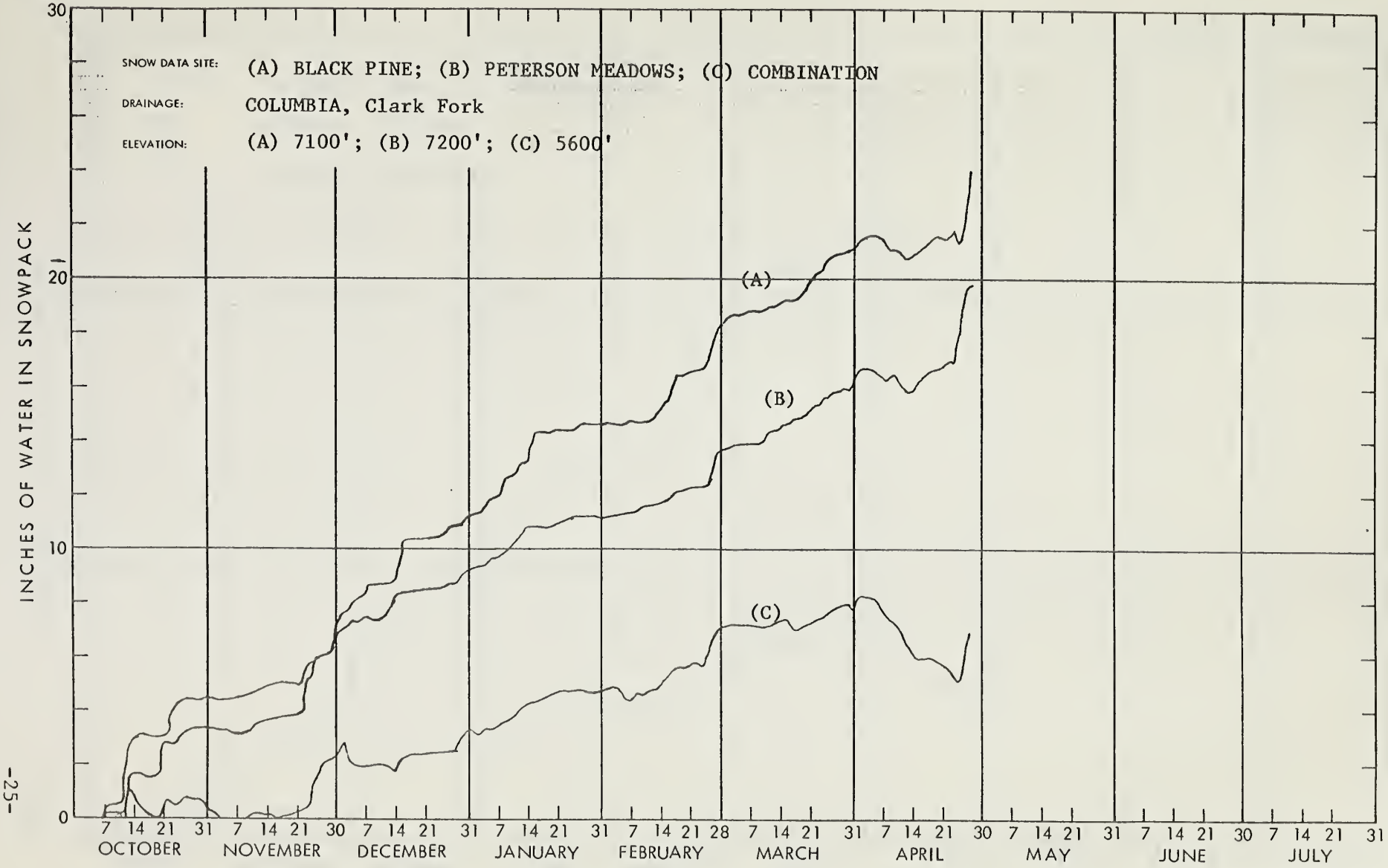

160
140
120
100
80
60
40
20
0
10
20
30
40
50
% Density
NOISY BASIN PROFILE
SNOW GAGE
4/26/76
Depth 118 inches
Snow Water Equivalent 42.5 in
Average Density 36.0%

WSFB-X13C


SNOW DATA SITE: (A) STAHL PEAK; (B) GRAVE CREEK
DRAINAGE: COLUMBIA; Kootenai
ELEVATION: (A) 6030'; (B) 4300'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY


SNOW DATA SITE: (A) POORMAN CREEK; (B) BANFIELD MOUNTAIN
DRAINAGE: COLUMBIA, Kootenai
ELEVATION: (a) 5100'; (B) 5600'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
Data from USCE
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY


SNOW DATA SITE: (A) HAWKINS LAKE; (B) GARVER CREEK
DRAINAGE: COLUMBIA, Kootenai
ELEVATION: (A) 6450'; (B) 4250'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
Data from USCE
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY


SNOW DATA SITE: (A) BLACK PINE; (B) PETERSON MEADOWS; (C) COMBINATION
DRAINAGE: COLUMBIA, Clark Fork
ELEVATION: (A) 7100'; (B) 7200'; (C) 5600'
INCHES OF WATER IN SNOWPACK
30
20
10
0
(A)
(B)
(C)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
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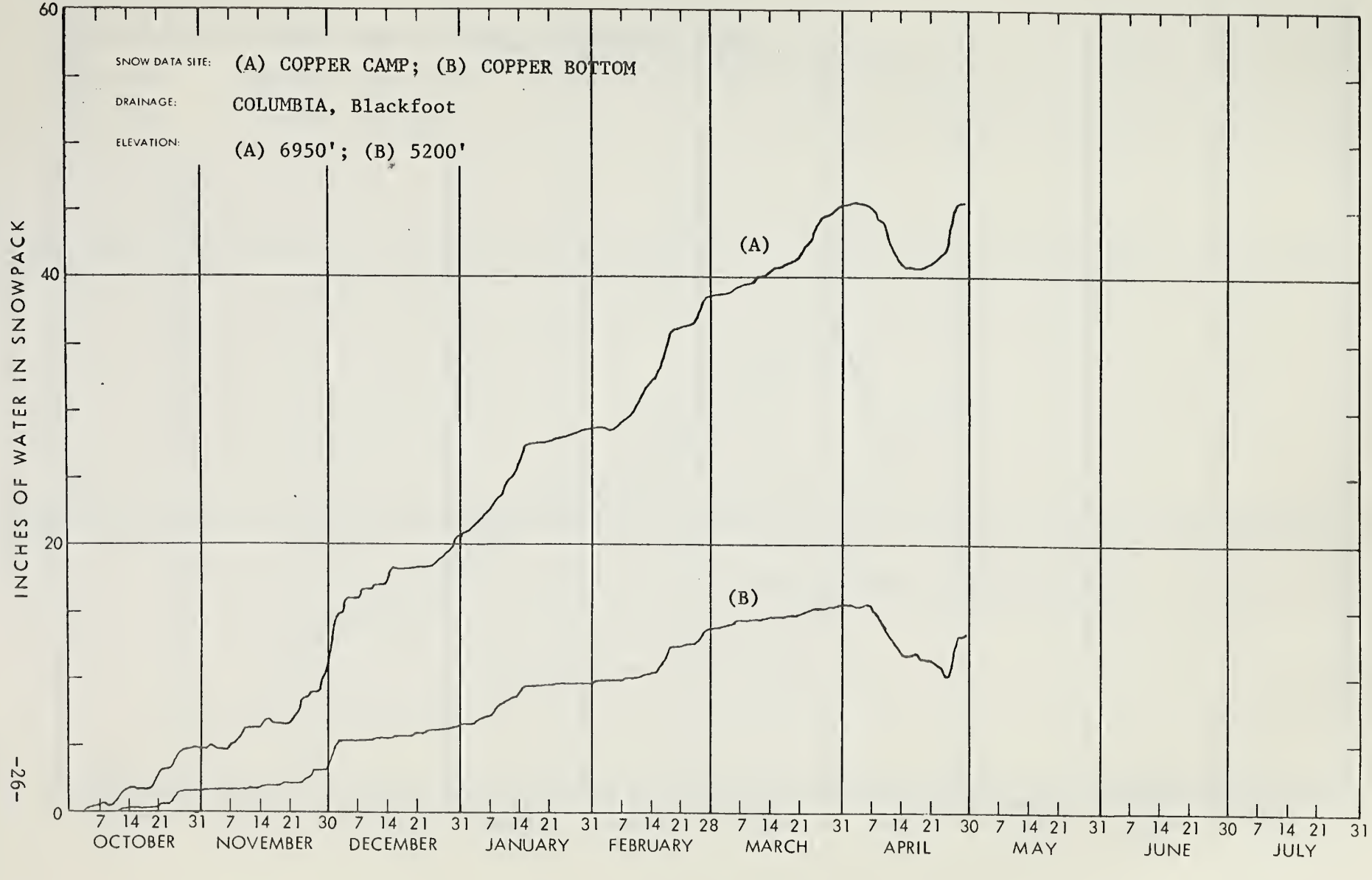
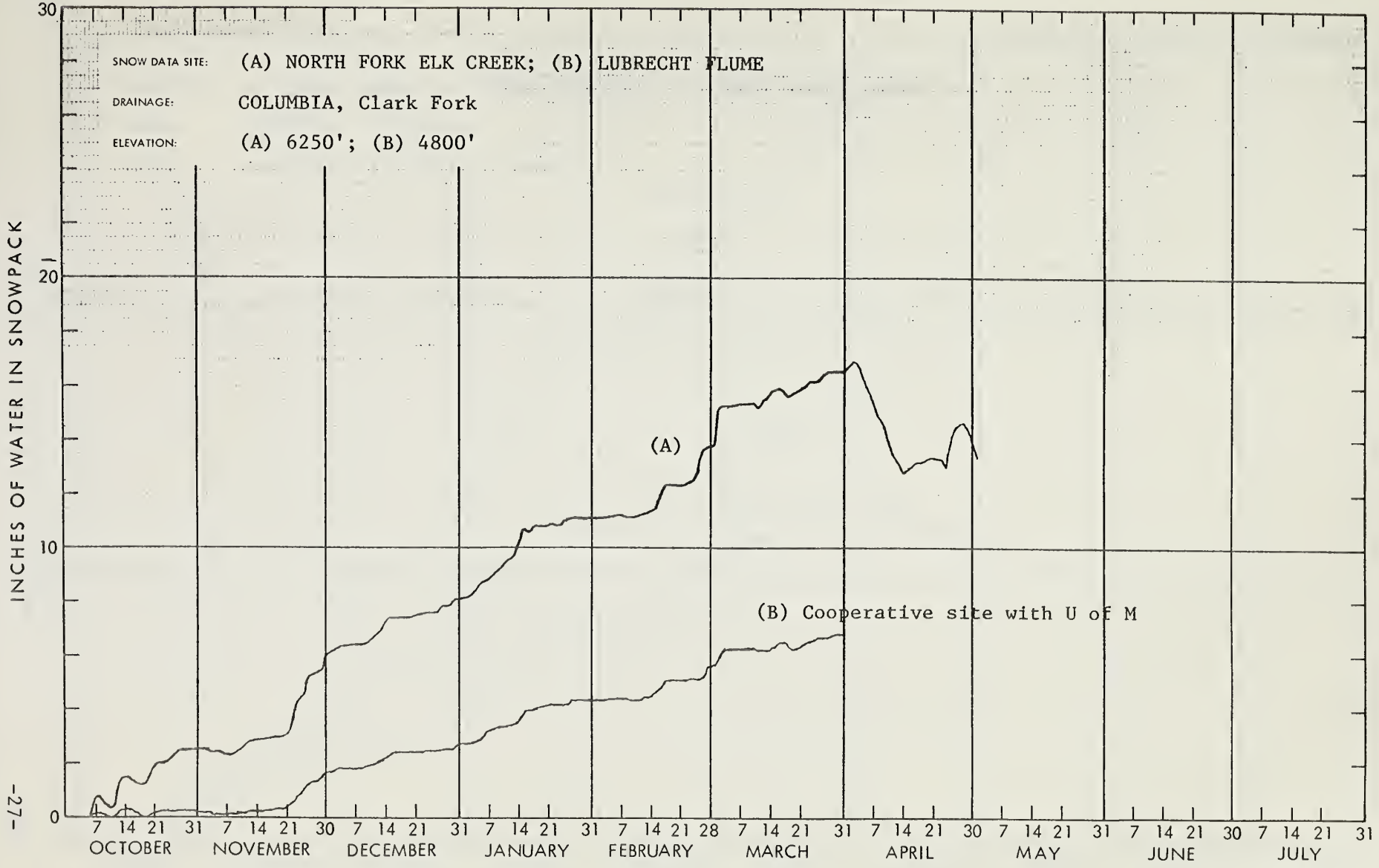
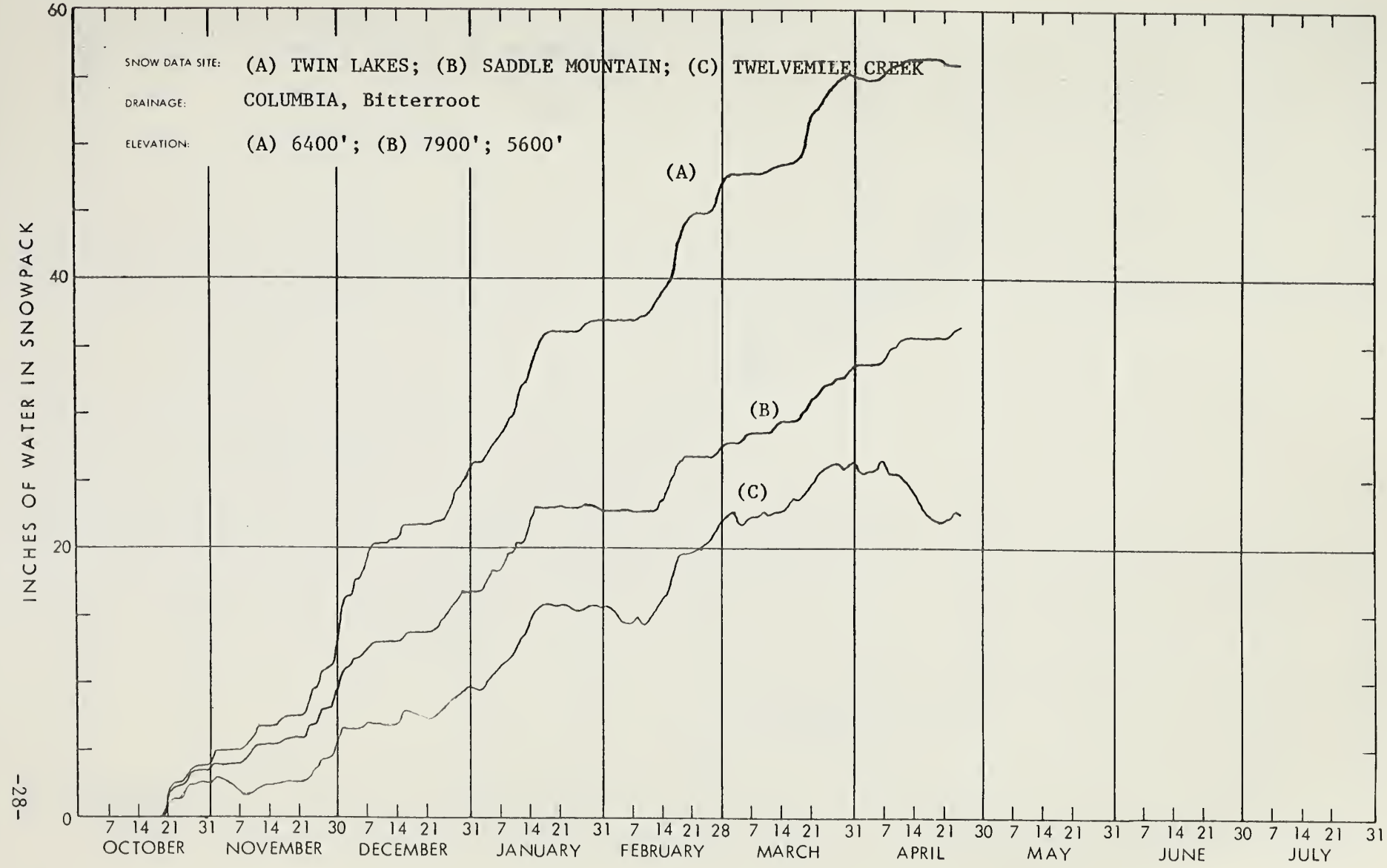
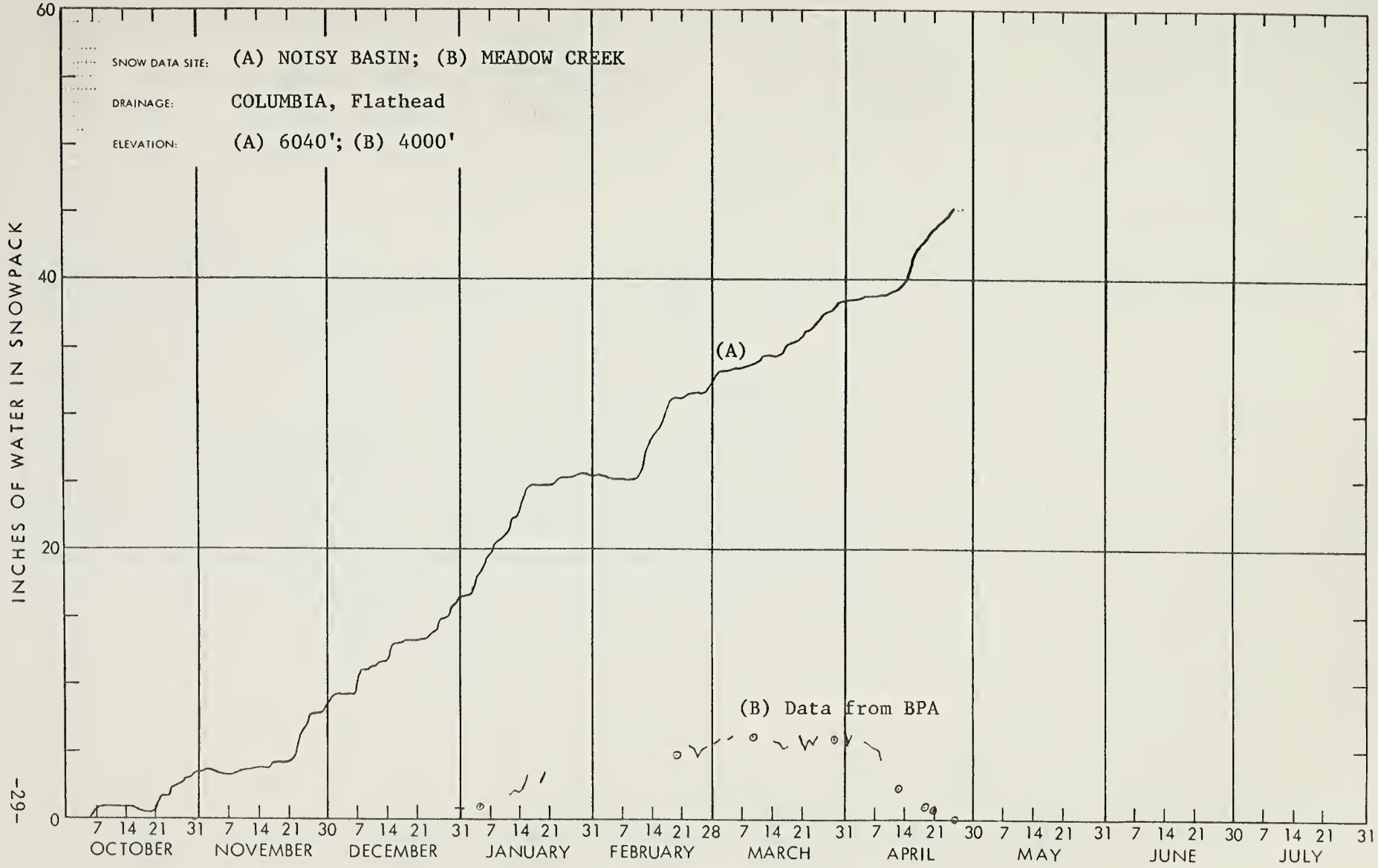
APRIL
MAY
JUNE
JULY


SNOW DATA SITE: (A) COPPER CAMP; (B) COPPER BOTTOM
DRAINAGE: COLUMBIA, Blackfoot
ELEVATION: (A) 6950'; (B) 5200'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY


SNOW DATA SITE: (A) NORTH FORK ELK CREEK; (B) LUBRECHT FLUME
DRAINAGE: COLUMBIA, Clark Fork
ELEVATION: (A) 6250'; (B) 4800'
INCHES OF WATER IN SNOWPACK
30
20
10
0
(A)
(B) Cooperative site with U of M
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY


SNOW DATA SITE: (A) TWIN LAKES; (B) SADDLE MOUNTAIN; (C) TWELVEMILE CREEK
DRAINAGE: COLUMBIA, Bitterroot
ELEVATION: (A) 6400'; (B) 7900'; 5600'
(A)
(B)
(C)
INCHES OF WATER IN SNOWPACK
60
40
20
0
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY


SNOW DATA SITE: (A) NOISY BASIN; (B) MEADOW CREEK
DRAINAGE: COLUMBIA, Flathead
ELEVATION: (A) 6040'; (B) 4000'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B) Data from BPA
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
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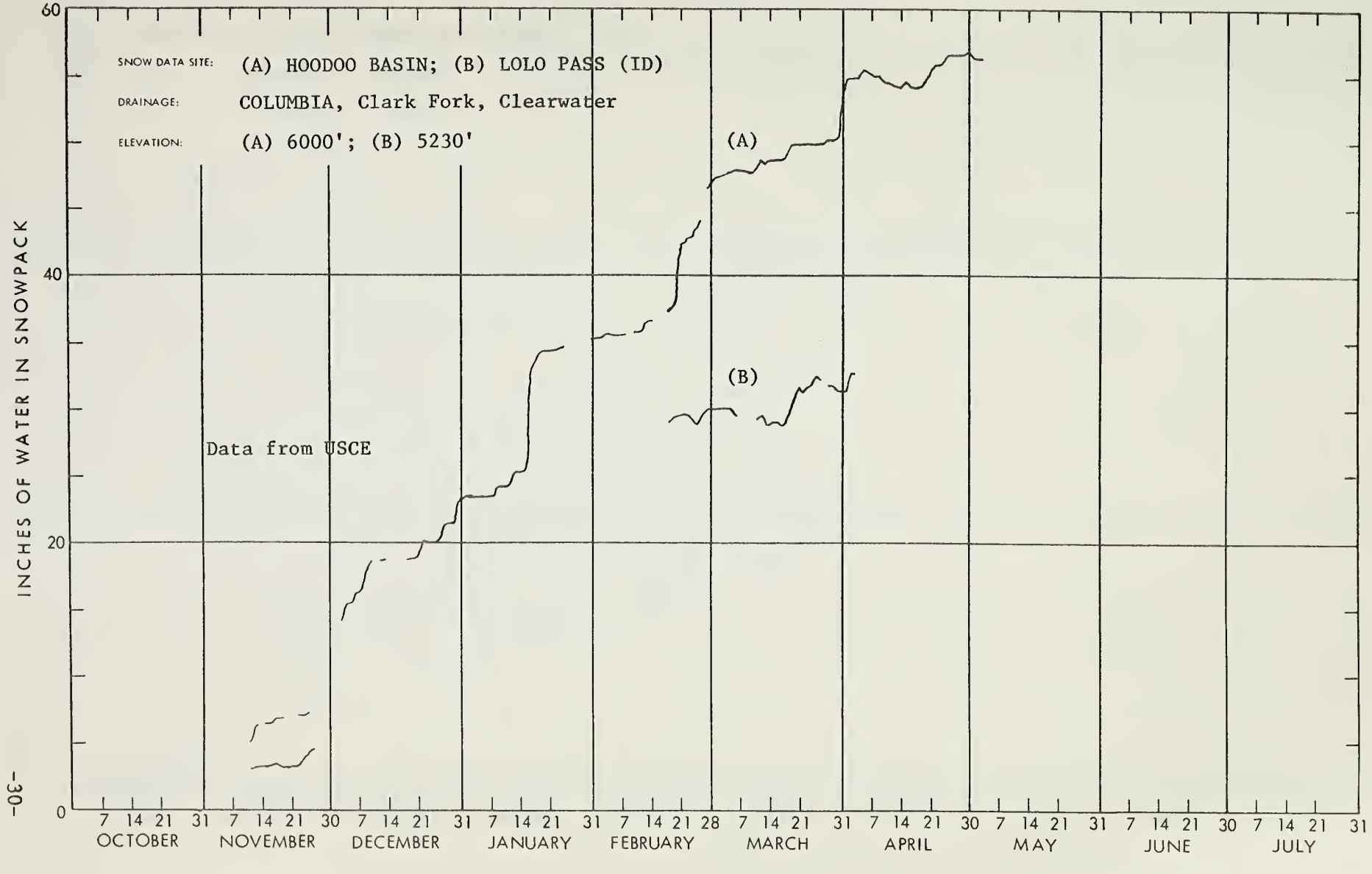
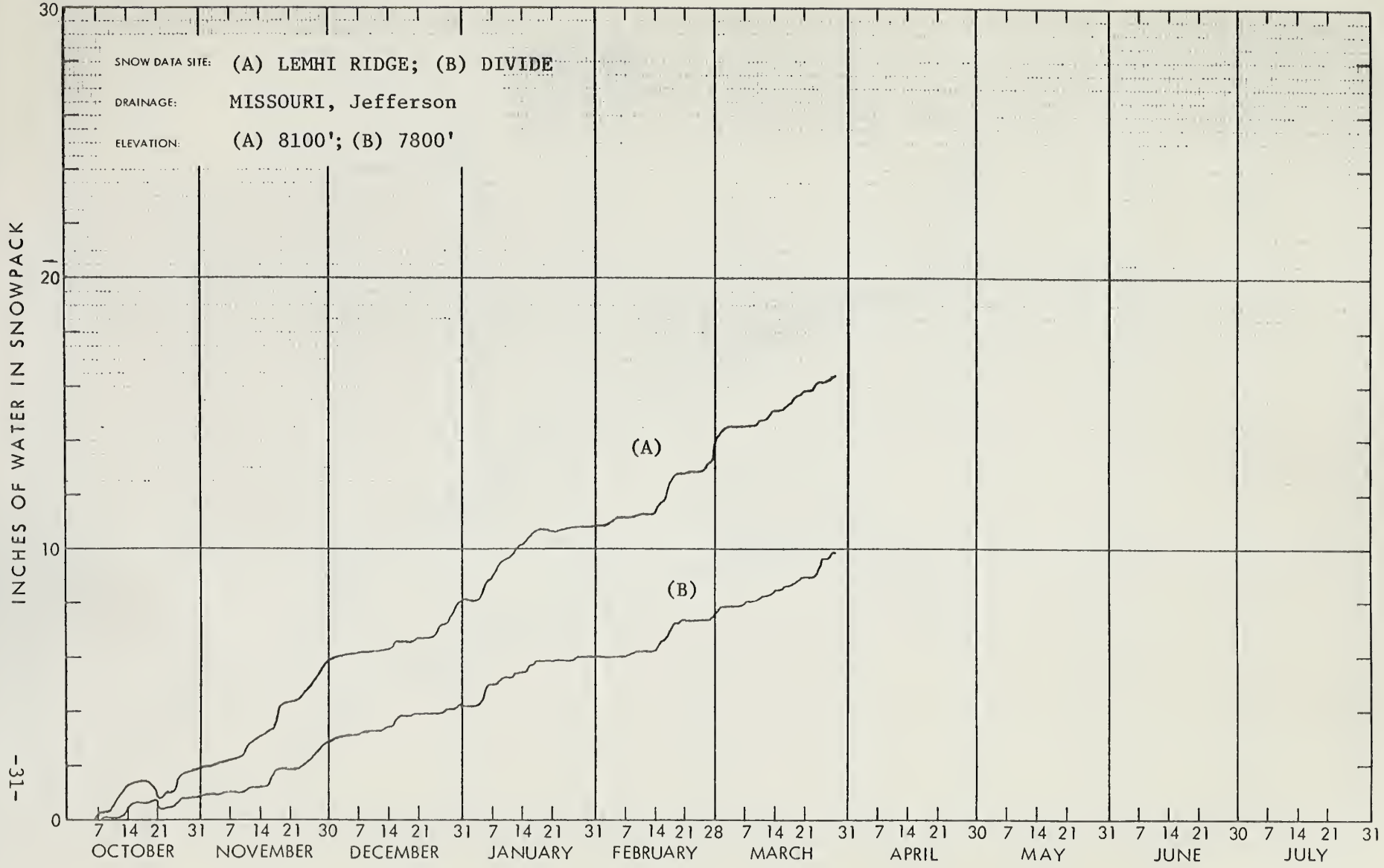
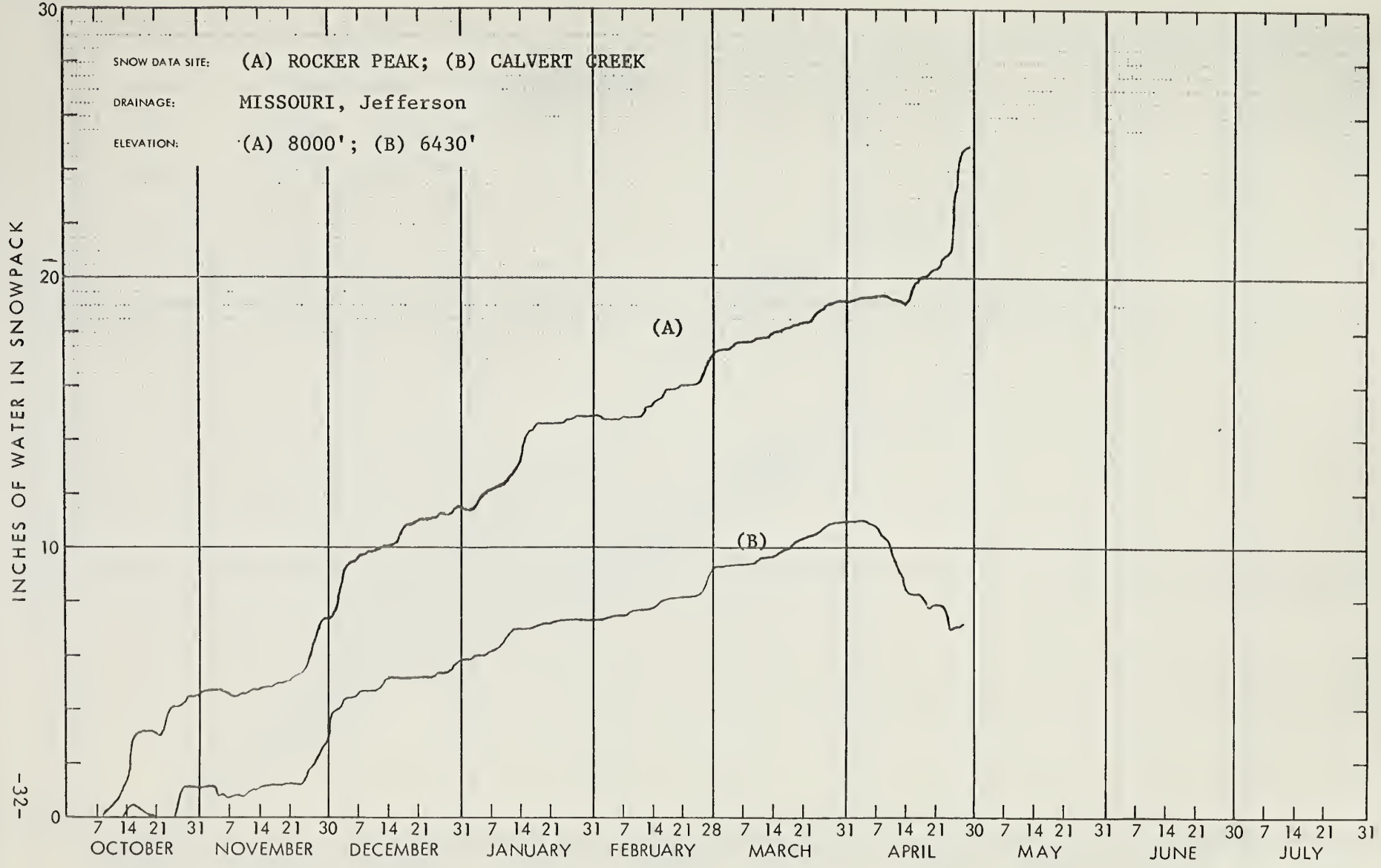
MAY
JUNE
JULY


SNOW DATA SITE: (A) HOODOO BASIN; (B) LOLO PASS (ID)
DRAINAGE: COLUMBIA, Clark Fork, Clearwater
ELEVATION: (A) 6000'; (B) 5230'
(A)
(B)
Data from USCE
INCHES OF WATER IN SNOWPACK
60
40
20
0
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY


SNOW DATA SITE: (A) LEMHI RIDGE; (B) DIVIDE
DRAINAGE: MISSOURI, Jefferson
ELEVATION: (A) 8100'; (B) 7800'
INCHES OF WATER IN SNOWPACK
30
20
10
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY


SNOW DATA SITE: (A) ROCKER PEAK; (B) CALVERT CREEK
DRAINAGE: MISSOURI, Jefferson
ELEVATION: (A) 8000'; (B) 6430'
INCHES OF WATER IN SNOWPACK
30
20
10
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
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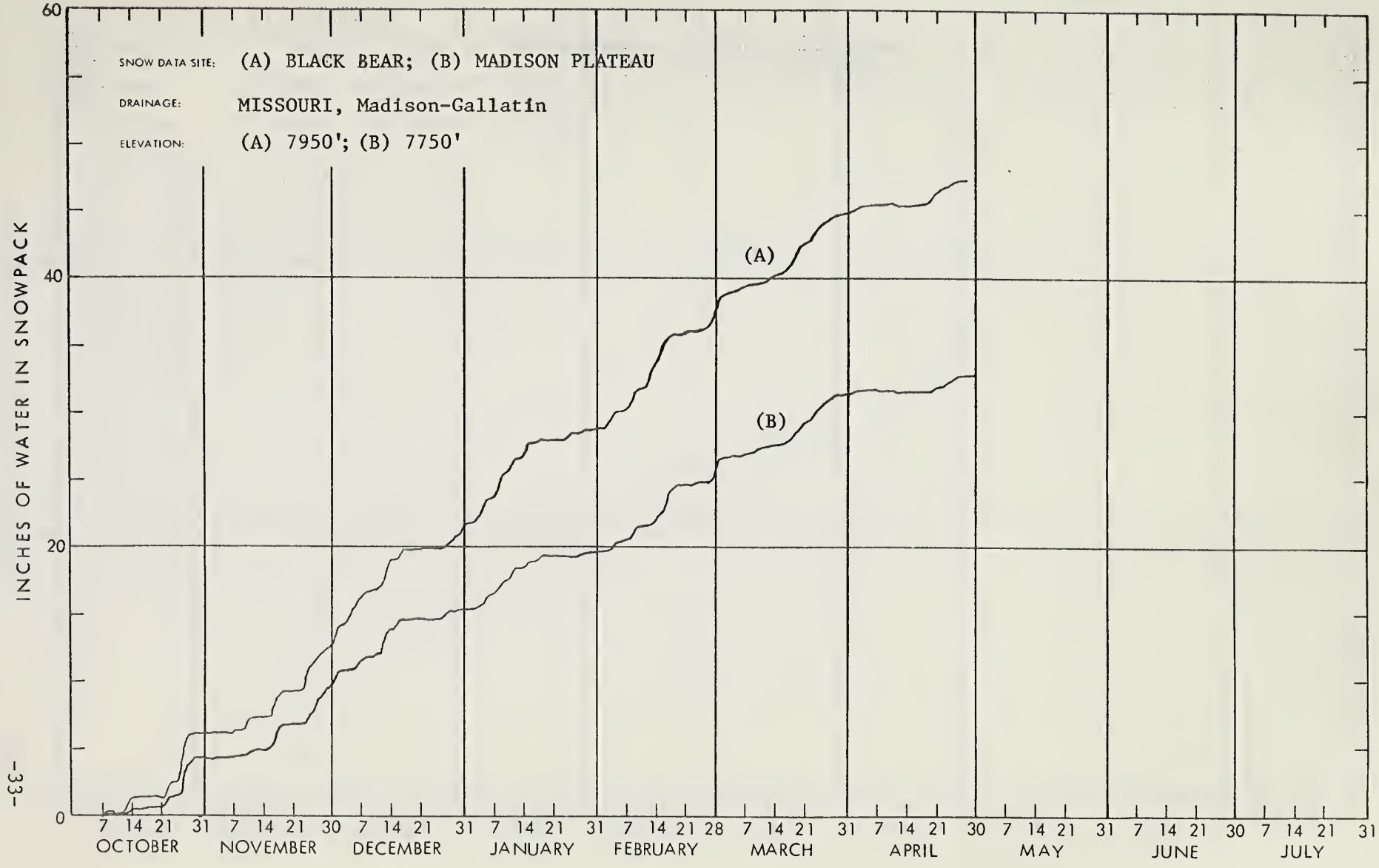
MAY
JUNE
JULY


SNOW DATA SITE: (A) BLACK BEAR; (B) MADISON PLATEAU
DRAINAGE: MISSOURI, Madison-Gallatin
ELEVATION: (A) 7950'; (B) 7750'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
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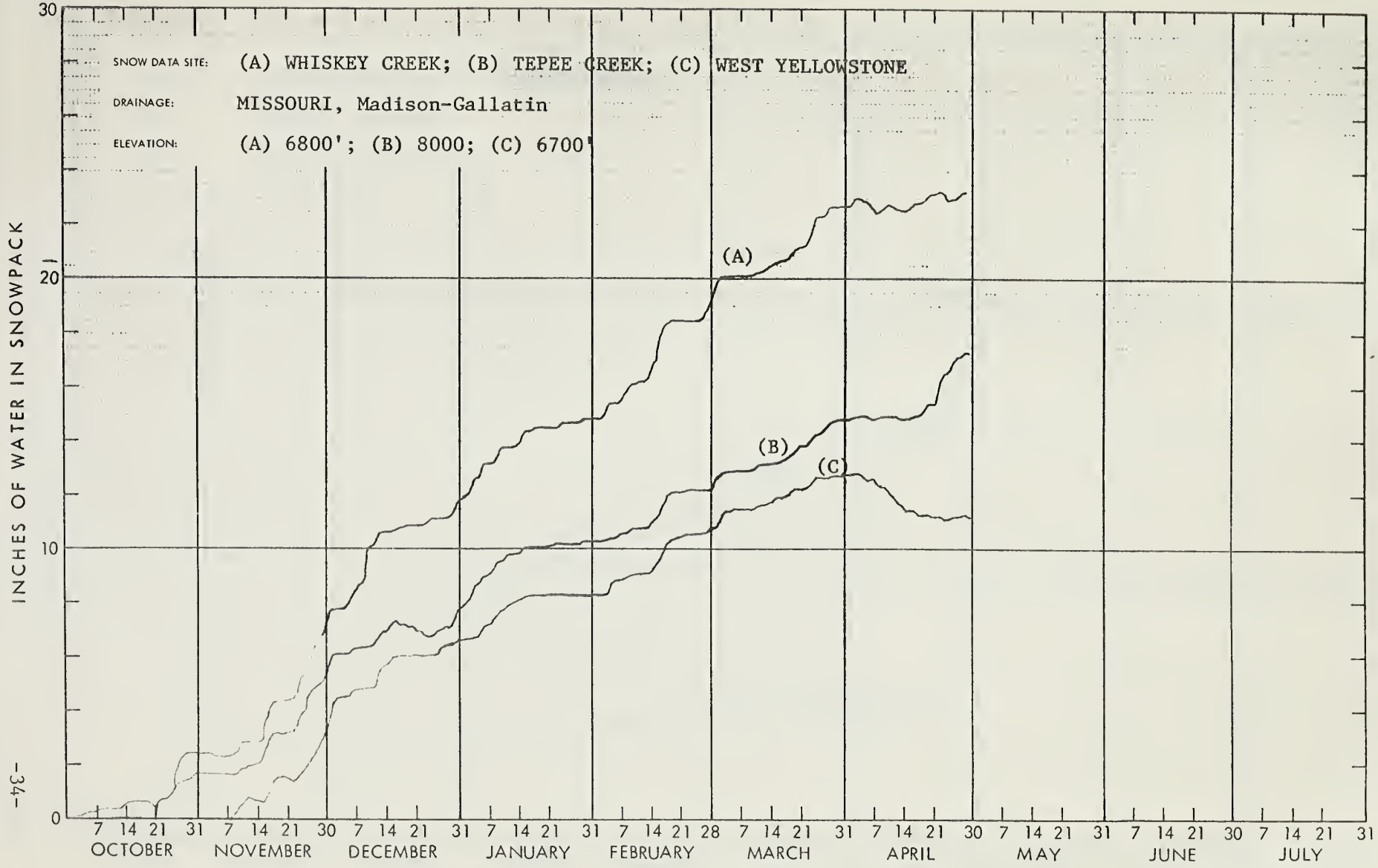
JUNE
JULY


SNOW DATA SITE: (A) WHISKEY CREEK; (B) TEPEE CREEK; (C) WEST YELLOWSTONE
DRAINAGE: MISSOURI, Madison-Gallatin
ELEVATION: (A) 6800'; (B) 8000; (C) 6700'
INCHES OF WATER IN SNOWPACK
0
10
20
30
(A)
(B)
(C)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
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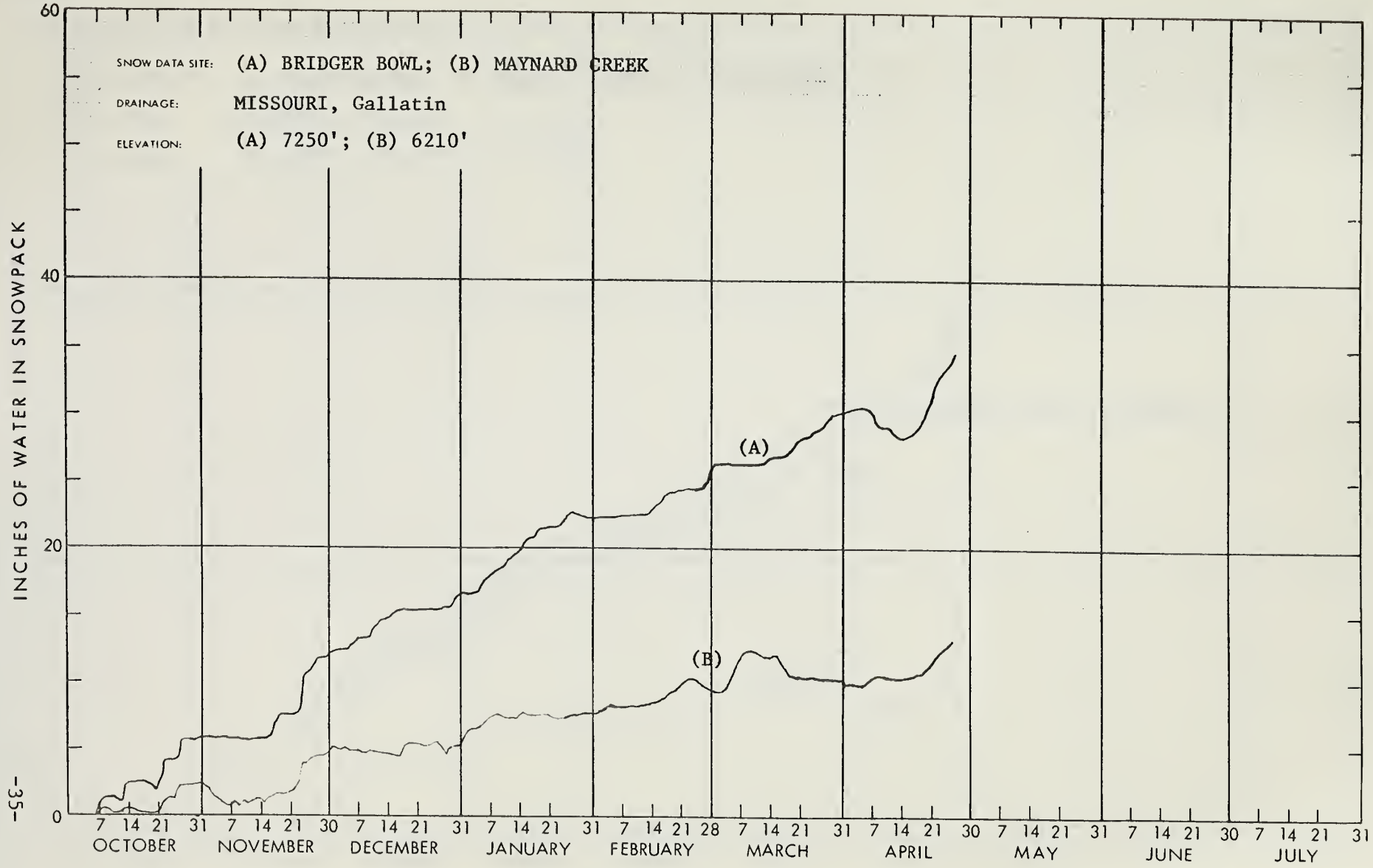
JULY


SNOW DATA SITE: (A) BRIDGER BOWL; (B) MAYNARD CREEK
DRAINAGE: MISSOURI, Gallatin
ELEVATION: (A) 7250'; (B) 6210'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
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MARCH
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JUNE
JULY

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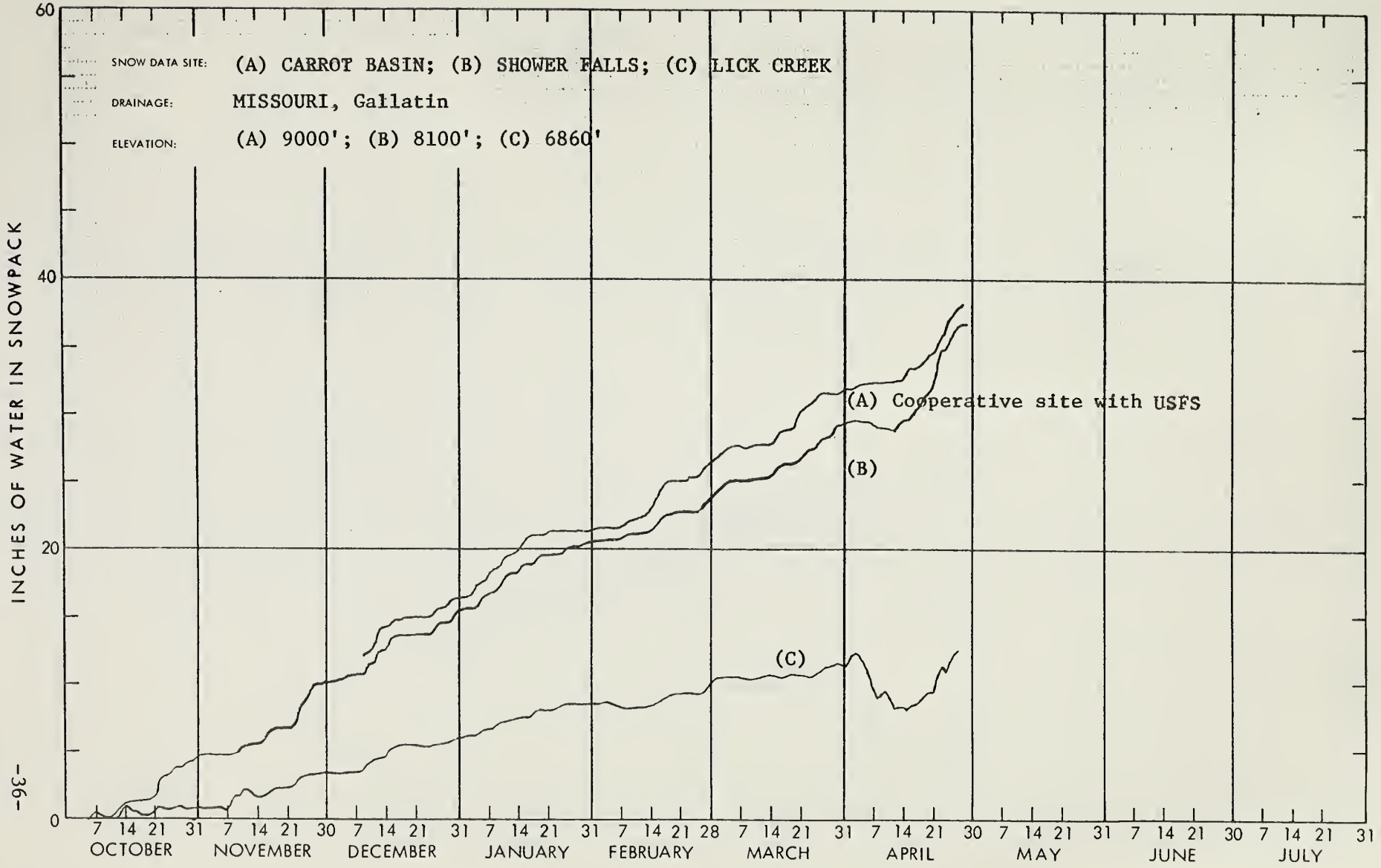
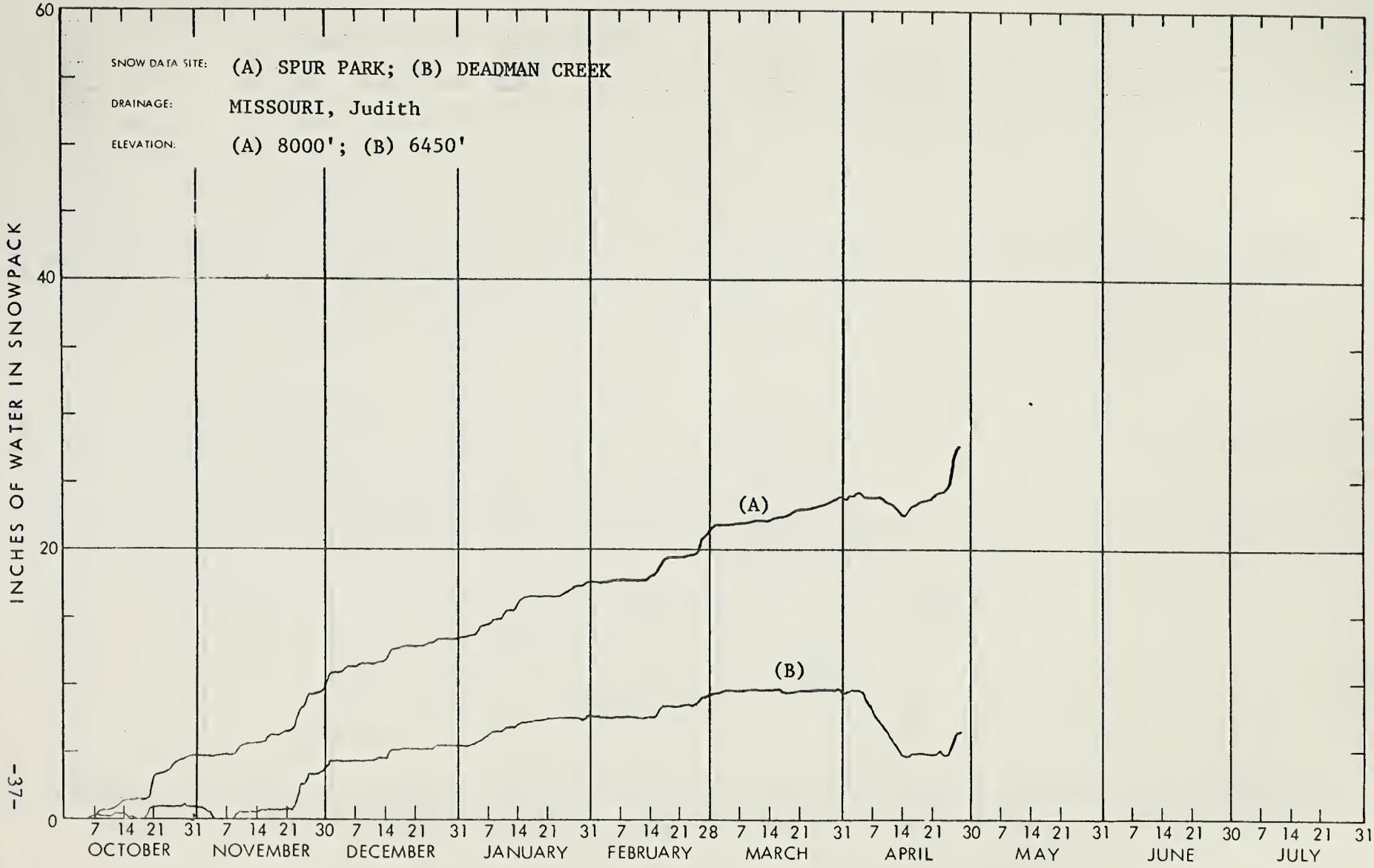

SNOW DATA SITE: (A) CARROT BASIN; (B) SHOWER FALLS; (C) LICK CREEK
DRAINAGE: MISSOURI, Gallatin
ELEVATION: (A) 9000'; (B) 8100'; (C) 6860'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A) Cooperative site with USFS
(B)
(C)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL
MAY
JUNE
JULY


SNOW DATA SITE: (A) SPUR PARK; (B) DEADMAN CREEK
DRAINAGE: MISSOURI, Judith
ELEVATION: (A) 8000'; (B) 6450'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
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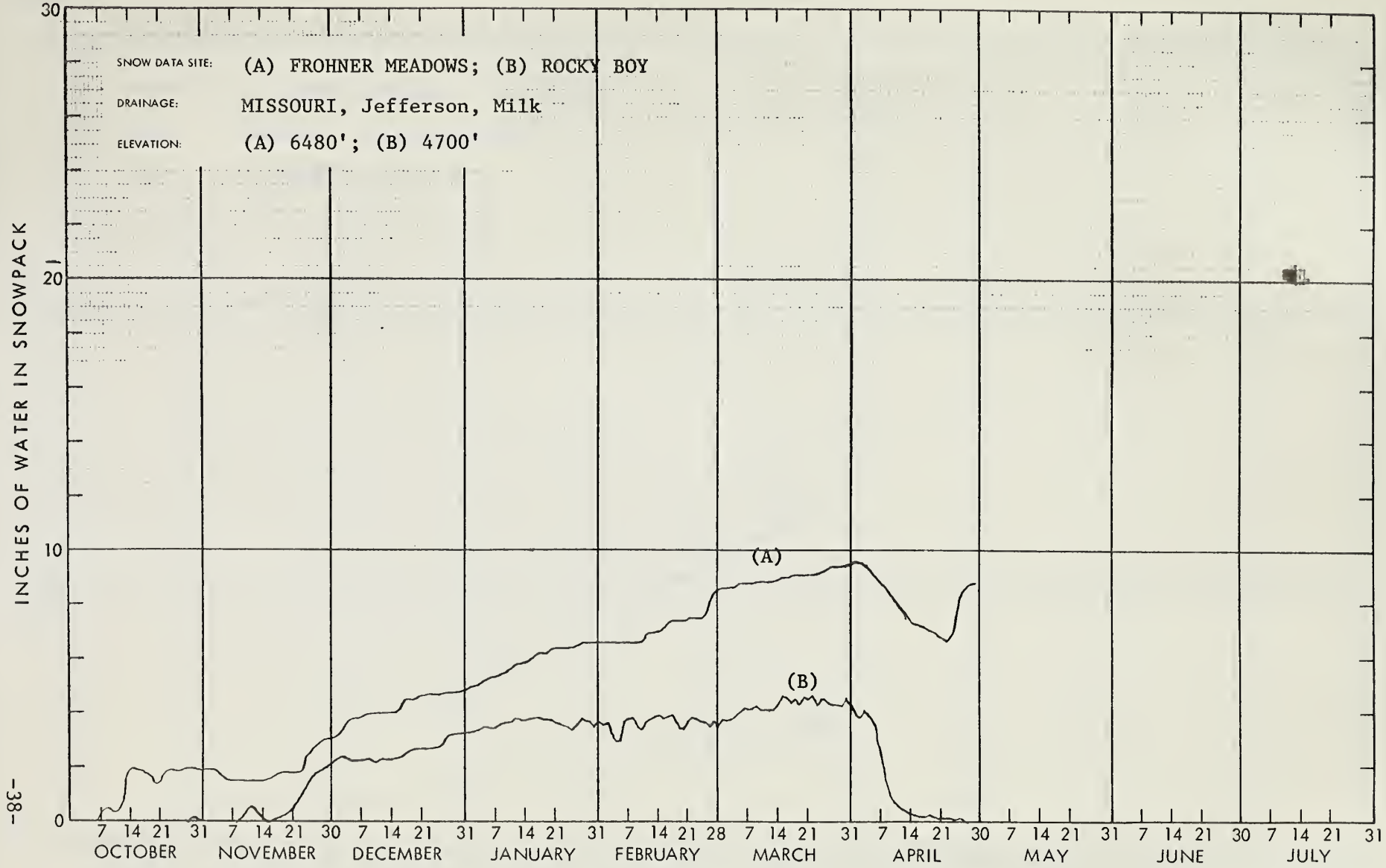
SNOW DATA SITE: (A) FROHNER MEADOWS; (B) ROCKY BOY
DRAINAGE: MISSOURI, Jefferson, Milk
ELEVATION: (A) 6480'; (B) 4700'
INCHES OF WATER IN SNOWPACK
30
20
10
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
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MARCH
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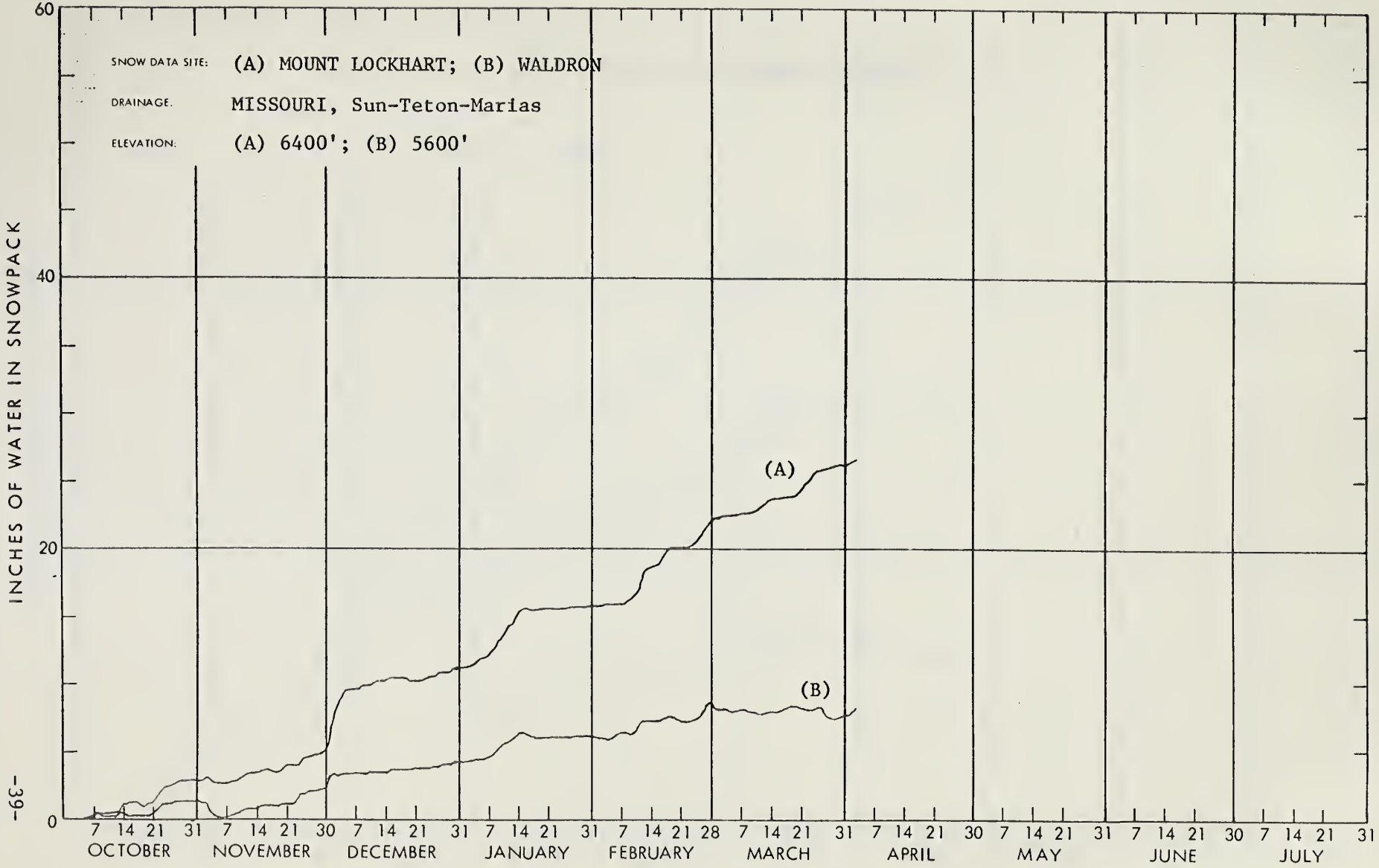
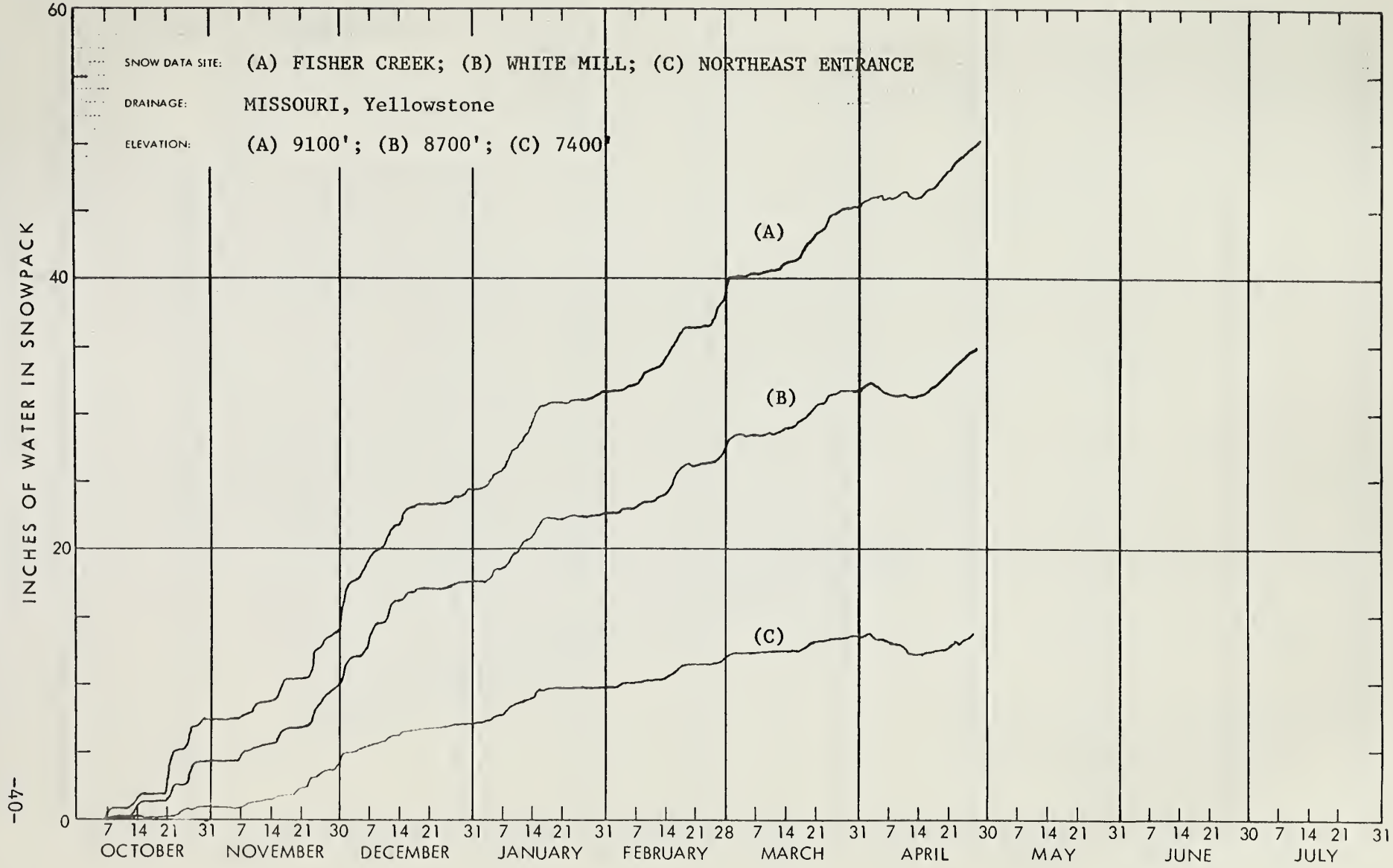
JUNE
JULY


SNOW DATA SITE: (A) MOUNT LOCKHART; (B) WALDRON
DRAINAGE. MISSOURI, Sun-Teton-Marias
ELEVATION: (A) 6400'; (B) 5600'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY


SNOW DATA SITE: (A) FISHER CREEK; (B) WHITE MILL; (C) NORTHEAST ENTRANCE
DRAINAGE: MISSOURI, Yellowstone
ELEVATION: (A) 9100'; (B) 8700'; (C) 7400'
INCHES OF WATER IN SNOWPACK
60
40
20
0
(A)
(B)
(C)
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
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MARCH
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JUNE
JULY

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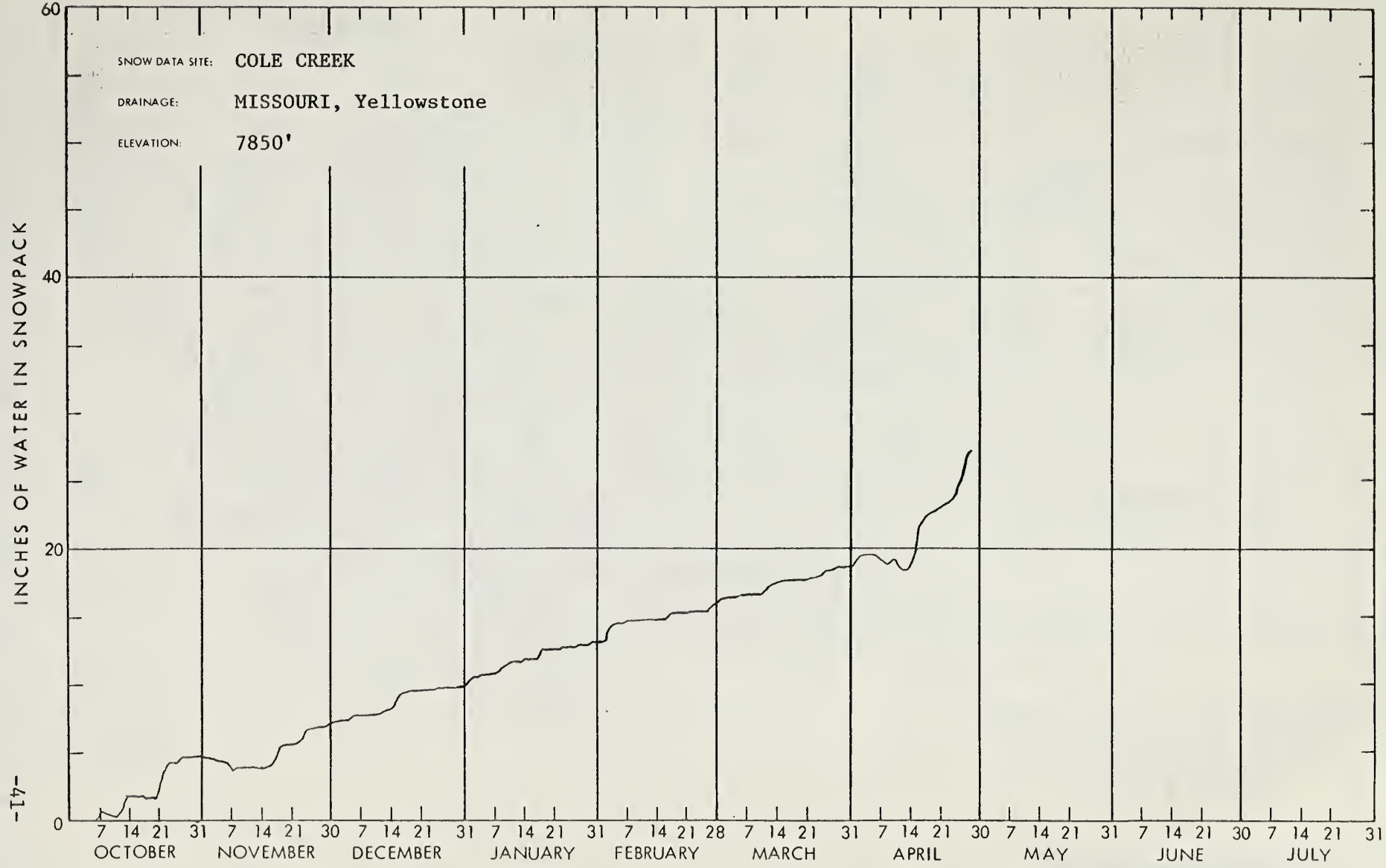
SNOW DATA SITE: COLE CREEK
DRAINAGE: MISSOURI, Yellowstone
ELEVATION: 7850'
INCHES OF WATER IN SNOWPACK
60
40
20
0
7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 31 7 14 21 28 7 14 21 31 7 14 21 30 7 14 21 31 7 14 21 30 7 14 21 31
OCTOBER
NOVEMBER
DECEMBER
JANUARY
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JUNE
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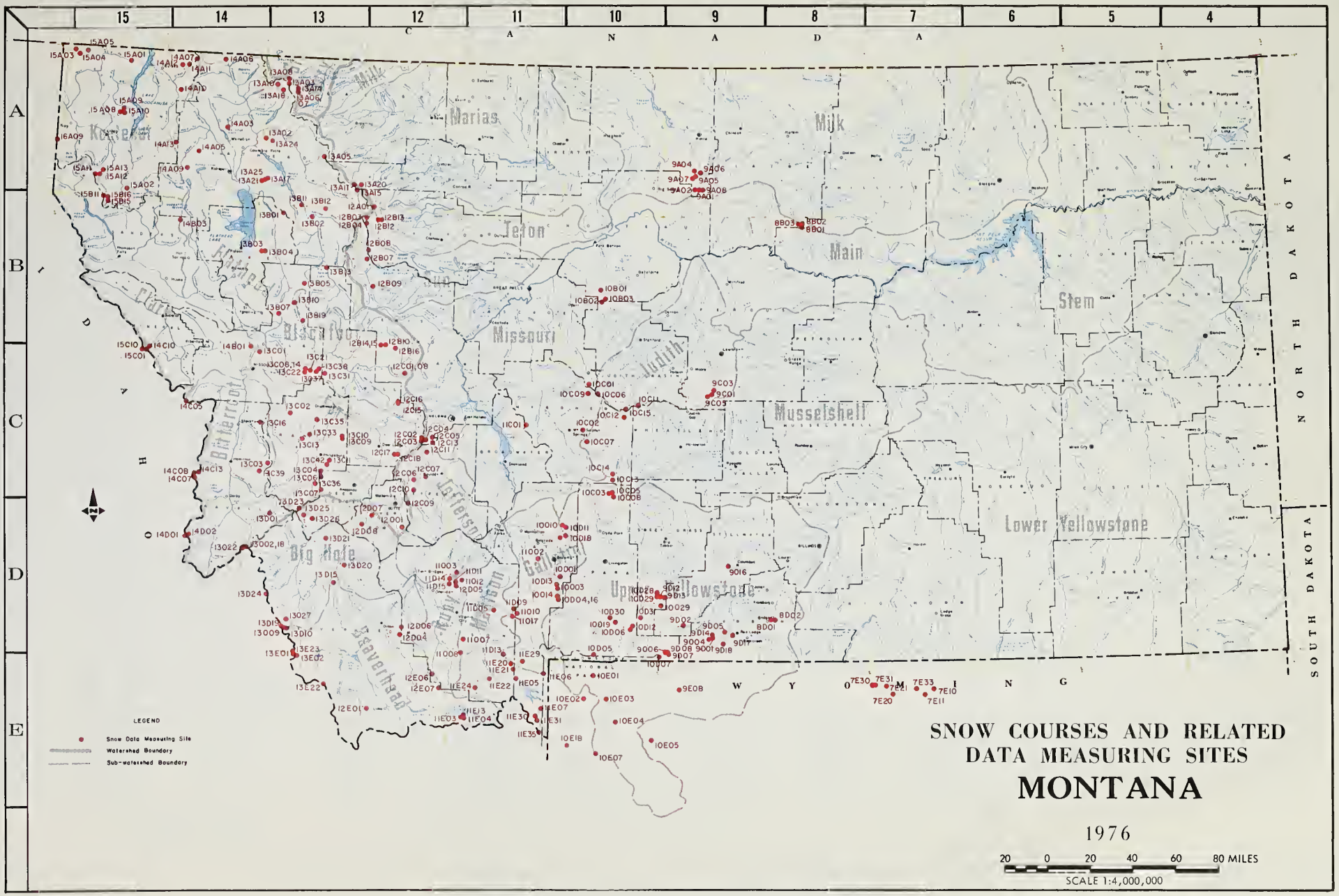
15 14 13 12 11 10 9 8 7 6 5 4
A B C D E
CANADA
NORTH DAKOTA
SOUTH DAKOTA
WYOMING
Kootenai
Marias
Milk
Teton
Main Stem
Missouri
Judith
Musselshell
Lower Yellowstone
Upper Yellowstone
Big Hole
Beaverhead
Ruby
Madison
Gallatin
Jefferson
Bitterroot
Clark Fork
Flathead
Blackfoot
LEGEND
Snow Data Measuring Site
Watershed Boundary
Sub-watershed Boundary
SNOW COURSES AND RELATED
DATA MEASURING SITES
MONTANA
1976
20 0 20 40 60 80 MILES
SCALE 1:4,000,000

INDEX to MONTANA SNOW COURSES and DATA SITES

SNOW COURSES

COLUMBIA RIVER BASIN

KOOTENAI RIVER

Drainage Basin & Snow Course	Number	Elev.	Sec.	Twp.	Range	Sensors in Addition to Snow Courses 1/	Measuring Dates 2/	Meas. By 3/
Bald Eagle Peak	15A11	5700	6	27N	31W		3,4,5,5½,6	1
Banfield Mountain	15A08	5600	4	32N	30W	S,P	2,3,4,5,5½,6	1
Barnes Creek	15B11	5500	36	26N	31W		3,4,5,5½	2
Barnes Midway	15B16	4600	31	26N	30W		3,4,5,5½	2
Barnes Trail	15B15	3800	5	25N	30W	M	3,4,5,5½	2
Bristow Creek	15A10	3900	2	32N	30W		2,3,4,5,5½,6	1
Brush Creek Timber	14A13	5000	12	30N	26W		3,4,5	1,2
Cedar Grove	15A13	4100	35	28N	31W		2,3,4,5,5½,6	1
Davis Creek	15A04	5400	20	37N	33W		2,3,4,5,5½,6	1
Carver Creek	15A05	4250	18	37N	32W	S,P	2,3,4,5,5½,6	1
Crave Creek	14A11	4300	1	36N	25W	S,P	3,4,5,5½,6	1
Hawkins Lake	15A03	6450	18	37N	33W	S,P	2,3,4,5,5½,6	1
Keeler Creek	16A09	3300	25	30N	35W		3,4,5	1
Lost Soul	15A09	4800	31	33N	29W		2,3,4,5,5½,6	1
Murphy Lake R. S.	14A10	3000	5	34N	25W	M,NSC	Monthly	2
Poorman Creek	15A12	5100	5	27N	31W	S,P	2,3,4,5,5½,6	1
Raven	15A02	3050	2	26N	29W	M,NSC	Monthly	2
Red Mountain	15A01	6000	4	36N	29W		3,4,5,5½,6	2
Scahl Peak	14A12	6050	5	36N	25W	S,P	3,4,5,5½,6	1
Weasel Olvide	14A07	5450	20	37N	24W		3,4,5,5½,6	1

FLATHEAD RIVER

Basoo Peak	14B03	5150	11	24N	25W		3,4,5	5
Beaver Lake	13A11	5900	31	28N	11W		3,4,5	1
Big Creek	13B03	6750	7	22N	18W		3,4,5, 6	1,5
Camp Misery	13A17	6400	30	28N	18W		3,4,5	1,2
Desert Mountain	13A02	5600	24	31N	19W	M	1,2,3,4,5, 6	1,2
Emery Creek	13A24	4350	20	31N	18W		3,4,5	1
Fatty Creek	13B04	5500	8	22N	18W		3,4,5, 6	1,5
Flattop Mountain	13A19	6300	12	35N	18W	S,P	4	1,6
Griffin Creek Olvide	14A09	5150	11	28N	25W		3,4,5	5
Gunsight Lake	13B12	6300	30	26N	13W		3,4,5	1
Mall Roaring Olvide	14A03	5770	35	32N	22W		1,2,3,4,5,5½,6	2
Molbrook	13B13	4530	18	21N	13W	A	1,2,3,4,5	1
Kishenehn	14A06	3890	14	37N	22W		3,4	6
Logan Creek	14A05	4300	34	30N	24W		3,4,5	1,2
Mineral Creek	13A16	4000	29	35N	17W		3,4,5	6
Noisy Basin	13A15	6040	25	28N	19W	S,P,M	3,4,5	1,2
Noisy Creek	13A21	3600	35	28N	19W		3,4,5	1,2
North Fork Jocko	13B07	6330	3	17N	17W		3,4,5,5½,6	1,5
Spotted Bear Mountain	13B02	7000	23	25N	15W	A	1,2,3,4,5	1
Trinkue Lake	13B01	6100	9	25N	17W		3,4,5	1
Twin Creeks	13B11	3580	25	26N	16W	A	1,2,3,4,5	1
Upper Holland Lake	13B05	6200	28	20N	15W		3,4,5	1

CLARK FORK RIVER

Black Pine	13C13	7100	26	8N	15W	S,P,M	1,2,3,4,5,5½,6	1
Combination	13C33	5600	7	8N	14W	S,P	1,2,3,4,5,5½,6	1
Copper Bottom	12B16	5200	15	15N	8W	S,P	3,4,5	1,2
Copper Camp	12B14	6950	3	15N	9W	S,P	3,4,5	1,2
Copper Creek	12B10	5700	1	15N	9W		3,4,5	1,2
Copper Lake Creek	12B15	6100	3	15N	9W		3,4,5	1,2
Cottonwood Creek	12C17	6400	14	7N	8W		3,4	2
Coyote Hill	13B10	4200	12	18N	16W		1,2,3,4,5	1,2
Discovery Basin	13C42	7050	21	6N	13W		1,2,3,4,5,5½	1
Elk Hill	12C15	6400	24	11N	8W	P	1,2,3,4,5	11
El Dorado Mine	13C09	7800	23	8N	12W		3,4	1
Fred Burr Pass	13C11	8000	12	6N	13W		3,4,5	1
Gold Creek Lake	13C10	7200	14	8N	12W		3,4	1
Heart Lake Trail	14C10	4800	11	14N	27W		1,2,3,4,5,5½,6	1
Hoodoo Basin	15C10	6000	17	14N	27W		1,2,3,4,5,5½,6	1
Hoodoo Creek	15C01	5900	16	14N	27W		1,2,3,4,5,5½,6	1
Intergaard	13C04	6450	6	5N	13W		2,3,4,5	4
Lower Willow Creek	13C15	4740	3	9N	14W	P,NSC	Monthly	1
Lubrecht Forest	13C14	4100	11	13N	15W	M,NSC	Monthly	8
Lubrecht Plume	13C38	4680	13	13N	14W	S,P	1,2,3,4,5	8
Lubrecht Forest No. 3	13C21	5450	19	13N	14W		1,2,3,4,5	8
Lubrecht Forest No. 4	13C22	4650	23	13N	15W		1,2,3,4,5	8
Lubrecht Forest No. 6	13C08	4040	11	13N	15W		1,2,3,4,5	8
Lubrecht Hydroplot	13C37	4200	22	13N	14W		1,2,3,4,5	8
North Fork Elk Creek	13C31	6250	20	13N	13W	S,P	1,2,3,4,5,5½,6	8
Ophir Ridge	12C16	7150	13	11N	8W		1,2,3,4,5	11
Petersen Meadows	13C36	7200	2	4N	14W	S,P	1,2,3,4,5	2
Sealey Lake R. S.	13B19	4030	21	17N	15W	M,NSC	Monthly	2
Skalkaho Summit	13C03	7260	30	6N	17W	P,M	3,4,5,5½,6	1
Slide Rock Mountain	13C02	7100	55	10N	16W		3,4,5	1
Storm Lake	13C07	7780	19	4N	13W		1,2,3,4,5	2
Stuart Mill	13C06	6500	19	5N	13W		2,3,4	4
Stuart Mountain	13C01	7400	6	14N	18W		3,4,5,5½,6	8
Sugarloaf	12C18	7350	13	7N	8W		3,4	2
TV Mountain	14B01	6800	33	15N	19W		1,2,3,4,5,5½,6	8

BITTERROOT RIVER

Ambrose	13C16	6480	28	9N	18W		3,4,5	1
Daly Creek	13C39	5780	16	5N	18W	P	3,4,5	1
East Fork R. S.	13D01	5400	16	2N	17W		3,4	1
Gibbons Pass	13D02	7100	4	2S	19W	M	1,2,3,4,5,5½,6	1,3
Lolo Pass	14C05	5250	11	10N	24W	M	1,2,3,4,5	1,2
Lost Horse	14C07	5940	5	4N	23W		3,4,5,5½,6	1
Nez Perce Camp	14D02	5580	19	1S	23W		3,4,5	1
Nez Perce Pass	14D01	6570	25	1S	24W		3,4,5	1
Saddle Mountain	13D22	7940	5	2S	19W	S,P	1,2,3,4,5,5½,6	1
Twelvemile Creek	14C13	5600	34	5N	23W	S,P	1,2,3,4,5,5½,6	1
Twin Lakes	14C08	6510	32	5N	23W	S,P	1,2,3,4,5,5½,6	1

HUDSON BAY BASIN

ST. MARY RIVER

Iceberg Lake No. 3	13A03	5600	1	35N	17W		5	3,9
Josephine Lower No. 9	13A14	4900	22	35N	16W		5	3,9
Mount Allen No. 7	13A07	5700	27	35N	16W		5	3,9
Piegan Pass No. 6	13A06	5500	27	35N	16W		5	3,9
Ptarmigan No. 8	13A08	5800	36	36N	17W		5	3,9

MISSOURI RIVER BASIN

BEAVERHEAD RIVER

Bloody Dick	13D10	7600	12	8S	16W	S,P	3,4,5	1
Carter Creek	12D04	7400	22	8S	7W		2,3,4	11
Christensen Ranch	12D06	6000	34	7S	7W	P,NSC	Monthly	11
Dad Creek Lake	13E22	8400	26	12S	13W		3,4,5	1
Elk Horn Springs	13D15	7800	21	4S	12W		3,4,5	3
Gold Stone	13D09	8100	11	8S	16W		3,4,5	1
Lakeview	11E13	6700	23	14S	2W	M,NSC	Monthly	10
Lakeview Canyon	11E04	6930	26	14S	2W		1,2,3,4,5	10
Lakeview Ridge	11E03	7400	27	14S	2W		1,2,3,4,5	10
Lemhi Pass	13E01	7480	9	10S	15W	S,P	3,4	1
Lemhi Ridge	13E23	8100	4	10S	13W	P	3,4	1
Trail Creek	13E02	7090	15	10S	15W		3,4	1
White Pine Ridge	12E01	8850	18	14S	9W		3,4,5	1

RUBY RIVER

Branham Lakes	11D14	8850	5	4S	3W		3,4,5	1,12
Clover Meadow	11D08	8600	28	9S	2W		3,4,5	1
Olvide	12E07	7800	14	12S	4W	S,P	3,4,5	1
Middle Mill Creek	11D15	7850	17	6S	3W		3,4,5	1,12
Notch	12E06	8500	18	11S	4W		3,4,5	1
Smuggler Mine	12D05	6960	24	6S	4W		3,4,5	1,12

BIG HOLE RIVER

Abundance Lake	13D20	8800	7	3S	11W		3,4,5	1
Bull Mountain	12D08	7500	3	1N	10W		1,2,3,4,5	2
Calvert Creek	13D26	6450	34	2N	14W	S,P	3,4,5	1
Darkhorse Lake	13D19	8600	4	8S	16W		3,4,5	1
Fleecer Ridge	12D07	6600	18	2N	9W		1,2,3,4,5	2
Foolhen	13D21	8280	11	1S	13W		3,4,5	1
Johnko Lake Trail	13D27	7200	24	7S	16W		3,4,5	1
Mudd Lake	13D25	7650	24	2N	15W		3,4,5	1
Pelisede Creek	13D23	8250	3	2N	15W		4,5	1
Sleg-A-Mait Lake	13D24	8750	29	5S	17W		3,4,5	1

JEFFERSON RIVER

Berry Meadow	12C07	7000	8	5N	5W		3,4	1
Copper Mountain	12C09	7700	13	3N	7W		2,3,4,5,5½	4
Nez Perce Creek	12C10	6500	16	4N	6W		2,3,4,5	4
Picnic Grounds	12C06	6500	21	5N	6W		2,3,4	4
Pipestone Pass	12D01	7200	10	1N	7W		1,2,3,4,5	4
Rocker Peak	12C11	8000	17	7N	5W	S,P	1,2,3,4,5	1

MADISON RIVER

Black Bear	11E35	7950	27	15S	5E	S,P	1,2,3,4,5,5½,6	1,2
Call Road	11D07	8050	21	8S	2W		3,4,5	1
Four Mile	11D12	6900	5	4S	2W	P	3,4,5	1
Nebgen Dam	11E05	6550	22	11S	3E		1,2,3,4,5	3
Jack Creek	11D05	7500	13	6S	1E		3,4	1
Lake Creek	11E22	6100	27	11S	1E		2,3,4,5	1,2
Lower Twin	11D11	7900	12	4S	3W		3,4,5	1
Madison Plateau	11E31	7750	28	14S	5E	S,P	1,2,3,4,5,5½,6	1,2
North Meadow	11D03	7500	24	3S	3W		3,4,5	1
Potomageton Park	11E21	7150	33	10S	3E		3,4,5	2
Sentinel Creek	11E20	8300	17	10S	3E		3,4,5	2
Tepee Creek	11E24	8000	15	12S	1W	S,P	2,3,4,5	1,2
West Yellowstone	11E07	6700	34	13S	5E	M,S	1,2,3,4,5	1,3,6
Whiskey Creek	11E30	6800	19	14S	5E	S,P	1,2,3,4,5,5½,6	2

GALLATIN RIVER

Arch Falls	10014	7350	3	5S	6E		1,2,3,4,5,5½,6	1
Bear Basin	11D09	8150	9	6S	3E		3,4,5	1
Big Sky	11D17	7700	30	6S	3E	P	1,2,3,4,5	1
Bridger Bowl	10D15	7250	25	1N	6E	S,P,M	1,2,3,4,5,5½,6	1
Carrot Basin	11E29	9000	18	10S	4E	B	1,2,3,4,5	2
College Site	11D02	4856	18	2S	5E	M,NSC	Weekly	7
Devils Slide	10D04	8100	14	5S	6E		1,2,3,4,5,5½,6	1
Hood Meadow	10D03	6600	22	4S	6E		1,2,3,4,5,5½,6	1
Lick Creek	10D13	6860	10	4S	6E	S,P,M	1,2,3,4,5,5½,6	1
Little Park	11D10	7400	22	6S	3E		3,4,5	1
Maynard Creek	10D18	6210	19	1N	7E	S,P	1,2,3,4,5,5½,6	1
New World	10D01	6700	24	3S	6E		2,3,4	1
Shower Falls	10D16	8100	14	5S	6E	S,P	1,2,3,4,5,5½,6	1
Taylor Peaks	11D13	8500	26	9S	2E	B,P	4	1
Twenty-One Mile	11E06	7150	1	11S	5E	M	1,2,3,4,5	3

MISSOURI RIVER MAIN STEM

Big Coulee	10B03	5100	10	19N	9E		1,2,3,4,5	1,12
Boulder Mountain	11C01	7950	1	9N	3E		3,4,5	1
Cheesman Reservoir	12C05	6200	2	8N	5W		1,2,3,4,5	3
Deadman Creek	10C09	6450	23	12N	8E	S,P	1,2,3,4,5,5½,6	1
Elk Peak	10C07	8000	10	8N	8E		3,4,5	1
Frohner Meadows	12C13	6480	23	8N	5W	S,P	1,2,3,4,5	1
Grasshopper	10C02	7000	19	9N	8E		3,4,5	1
Highwood Olvide	10B02	5650	16	19N	9E	P	1,2,3,4,5	1,12
Highwood Station	10B01	4600	20	20N	9E	P	1,2,3,4,5	1,12
Kings Hill	10C01	7500	34	13N	8E	M	3,4,5,5½,6	1,3
Stemple Pass	12C01	6600	16	13N	7W	M	3,4,5	1,3
Ten Mile Lower	12C02	6600	12	8N	6W		1,2,3,4,5	3
Ten Mile Middle	12C03	6800	13	8N	6W		1,2,3,4,5	3
Ten Mile Upper	12C04	8000	19	8N	5W		1,2,3,4,5	3

TETON - MARIAS RIVERS

Badger Pass	13A15	6900	4	27N	11W	A	1,2,3,4,5	1
Blue Lake	13A20	5900	25	28N	11W	A	1,2,3,4,5	1
Cabin Creek	12B06	5200	33	23N	10W		3,4,5	2
Five-Bull	12B09	5700	25	20N	10W		3,4,5	1
Freight Creek	12A01	6000	13	26N	10W		3,4,5	1
Goat Mountain	12B07	7000	20	22N	10W		3,4	2,3
Marias Pass	13A05	5250	31	30N	13W	M	1,2,3,4,5	3,6
Mount Lockhart	12B12	6400	18	25N	9W	S,P	1,2,3,4,5,5½,6	2
Waldron	12B13	5600	17	25N	9W	S,P	1,2,3,4,5,5½,6	2
Wrong Creek	12B04	5700	32	25N	10W		3,4,5	2
Wrong Ridge	12B03	6800	17	25N	10W		3,4,5	2

JUDITH RIVER

Big Snowy	9C05	7150	25	12N	17E		3,4,5	1
Crystal Lake	9C01	6100	19	12N	18E		3,4,5	1
Rock Creek	9C03	5600	7	12N	18E		3,4,5	1
Spur Park	10C06	8100	20	12N	9E	S,P	1,2,3,4,5,5½,6	1
Wilcox Ranch	9C06	5300	17	13N	18E	P,NSC	Monthly	11

MUSSELSHELL RIVER

Daisy Peak	10C15	7600	34	11N	11E		3,4,5	2
Eagle Creek	10C13	7000	2	5N	10E		3,4,5	2
Forest Lake	10C14	6400	26	6N	10E		3,4,5	2
Haymaker	10C11	8050	16	11N	12E		3,4,5	2
Johnson Park	10C12	6430	16	10N	11E		3,4,5	2

MILK RIVER

Beaver Creek	9A05	3950	21	29N	16E	M,NSC	Monthly	1,7
Bear Paw Ski Area	9A02	5200	21	28N	16E	P	1,2,3,4,5	1,7
Boxelder Creek	9A08	5100	24	28N	16E	P	1,2,3,4,5	1,7
King Creek Saddle	8B02	4550	10	25N	24E		1,2,3,4,5	5
King Springs	8B03	4150	9	25N	24E		1,2,3,4,5	5
Kiwanis Camp	9A04	3720	9	29N	16E	P,W,T	1,2,3,4,5	1,7
Mission Mountain	8B01	5050	15	25N	24E	P	1,2,3,4,5	5
Rocky Boy	9A01	4700	22	28N	16E	S,P,M	1,2,3,4,5	1,7
Sucker Creek	9A06	5960	11	29N	16E	P	1,2,3,4,5	1,7
Taylor Road	9A07	4080	19	29N	16E	P	1,2,3,4,5	1,7

UPPER YELLOWSTONE RIVER

Bald Ridge	10C05	7500	11	4N	10E		3,4,5	1
Bottle Ridge	10D11	6020	32	2N	7E	M	1,2,3,4,5	1
Bote Sota	9B14	7750	35	7S	18E		3,4,5	1
Box Canyon	10D31	6700	28	6S	12E		3,4,5	1
Brass Monkey	10D29	9050	6	5S	14E	P,NSC	Seasonally	11
Camp Senio	9D01	7890	2	8S	18E		3,4,5,5½,6	1
Cole Creek	9D16	7850	26	2S	19E	S,P	1,2,3,4,5,5½,6	1,2
Colley Creek	10D30	6300	34	6S	10E		3,4,5	1
Cooke Station	9D07	8150	19	9S	15E		3,4,5,5½,6	1,2
Crevice Mountain	10D05	8400	22	9S	9E		3,4	2
Fisher Creek	9D06	9100	11	9S	14E	S,P	1,2,3,4,5,5½,6	1,2
Grizzly Peak	9D05	8400	26	7S	19E		1,2,3,4,5	1,2
Independence	10D06	7850	21	7S	12E		3,4,5	1
Mill Creek	10D19	7500	6	7S	11E	P	3,4,5	2
Monument Peak	10D12	8800	16	7S	12E		3,4,5	1
Northeast Entrance	10D07	7400	33	9S	14E	S,P,M	1,2,3,4,5,5½,6	1,6
Picket Pin Lower	9D13	6200	1	5S	14E	P	1,2,3,4,5	13
Picket Pin Middle	9D12	7250	3	5S	14E		1,2,3,4,5	13
Picket Pin Upper	10D28	8100	32	4S	14E	P	1,2,3,4,5	13
PMC Oryland	8D02	3700	35	6S	23E	M,NSC	Monthly	1
PMC Headquarters	8D01	3636	34	6S	23E	P,W,T,NSC	Daily	1
Porcupine	10C03	6500	10	4N	10E	S,P	3,4,5	1
Sacajawea	10D10	6550	36	2N	6E		3,4,5	1
Silver Run	9D18	6630	11	8S	19E	S,P	3,4,5	1
South Fork Shields	10C08	8100	13	4N	10E		3,4,5	1
Timberline Creek	9D04	8850	10	8S	18E		3,4,5,5½,6	1
West Rosebud	9D02	7500	9	7S	16E		3,4	4
White Mill	9D08	8700	18	9S	15E	S,P	3,4,5,5½,6	1,2
Willow Creek	9D17	6500	31	7S	20E		1,2,3,4,5	1,2

LEGEND

1/ Blank refers to snow course only at site
S = snow pillow also
P = precipitation gage also
M = soil moisture gage also
T = max-min temperature also
W = wind run also
A = aerial marker also
NSC = no snow course at site

2/ Numerals 1,2,3,4,5,5½,6 refer to snow course or aerial marker measurements on January 1, February 1, March 1, April 1, May 1, May 15, and June 1. Most snow pillows, temperature, and wind run are daily readings, most precipitation gages and soil moisture are read monthly.

3/ Numerals refer to agency making the snow surveys as follows:

1. Soil Conservation Service
2. Forest Service
3. Geological Survey
4. Montana Power Company
5. Bureau of Indian Affairs
6. National Park Service
7. MSU Agricultural Experiment Station
8. University of Montana School of Forestry
9. Department of Energy, Mines and Resources
10. Bureau of Sports Fisheries and Wildlife
11. Private Cooperator
12. Montana Association of Conservation Districts
13. Montana Department of Fish and Game

Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Water Survey of Canada, Calgary, Department of the Environment
Water Resources Service, Department of Lands, Forests and Water Resources, British Columbia

Federal:

Department of the Army
- Corps of Engineers

U.S. Department of Agriculture
- Forest Service
- Soil Conservation Service

U.S. Department of Commerce
- NOAA, National Weather Service

U.S. Department of the Interior
- Bonneville Power Administration
- Bureau of Indian Affairs
- Bureau of Reclamation
- Fish and Wildlife Service
- Geological Survey
- National Park Service

STATE

Montana Association of Conservation Districts
Montana Department of Fish and Game
Montana Department of Natural Resources and Conservation
Montana State University - Agricultural Experiment Station
University of Montana - School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

MONTANA AGRICULTURAL EXPERIMENT STATION

AS OF
MAY. 15, 1976

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appeors as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course meosurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA-SCS-PORTLAND, OREG.-1978

WATER SUPPLY OUTLOOK FOR MONTANA

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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SOIL CONSERVATION SERVICE
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UNITED STATES DEPARTMENT OF AGRICULTURE

MONTANA WATER SUPPLY OUTLOOK
MAY 15, 1976

* *
* Melting of the mountain snows has begun with all but the highest alpine areas now contributing to streamflow. Based on snow pillow records, most major streams are expected to reach their snowmelt peaks by the end of May or early June. *
* *

COLUMBIA RIVER DRAINAGE

Snow - Late season snowpack continues to follow the pattern of earlier months. The Kootenai, Flathead and Lower Clark Fork River basins have about average snow conditions. The Blackfoot River is a little above average while the Upper Clark Fork and Bitterroot River headwaters hold above average snowpack.

Streamflow - Peak snowmelt runoff, based on snow pillow data, is expected to occur around the end of May or the first part of June on the Bitterroot River. The Blackfoot, Upper Clark Fork, and North and Middle Forks of the Flathead should reach their snowmelt peak the third or fourth week in May. Some smaller, lower elevation streams peaked around mid-month. Streamflow volume forecasts issued on May 1 remain unchanged.

MISSOURI RIVER DRAINAGE

Snow - Snowpack remaining in most drainages is above average. The mountain ranges in central Montana, including the Bridger and Crazy Mountains, do have average or little below average snowpack. Some areas have water content near or above amounts measured last year.

Streamflow - No change is seen in volume forecast issued near the first of May. Peak snowmelt runoff, based on snow pillow data, should occur the last week of May on the Upper Madison River and Jefferson River. The Big Hole and Missouri Rivers at their headwaters are expected to reach their maximum snowmelt runoff the last of May or first part of June. The Gallatin River should be a little later, the first week in June.

YELLOWSTONE RIVER DRAINAGE

Snow - Snowpack remaining in the Yellowstone River headwaters is above average. In some areas, the water content is greater than a year ago. The Beartooth area has 10 or more feet of snow remaining in the protected areas. The snowpack is nearly one-half water and melt is beginning at the higher elevations.

UNITED STATES DEPARTMENT OF AGRICULTURE

YELLOWSTONE RIVER DRAINAGE (Contd)

Streamflow - Streamflow forecasts issued May 1 are unchanged. Based on snow pillow records, the major streams are expected to reach their snowmelt peak late in the first week or early in the second week of June. Rock Creek could be a little later in the second week in June.

UNITED STATES DEPARTMENT OF AGRICULTURE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
BADGER PASS	6900	5/16	101	53.5	55.5	-
BALD EAGLE PEAK	5700	5/11	122	57.8	70.2	62.6
BANFIELD MOUNTAIN	5600	5/12	35	16.1	28.3	15.5
BANFIELD MOUNTAIN PILLOW	5600	5/12	SP	13.0	23.3	13.8
BAREE CREEK	5500	5/14	84	45.7	55.6	42.6
BAREE MIDWAY	4600	5/14	52	26.2	38.4	24.5
BAREE TRAIL	3800	5/14	0	.0	.0	.0
BASIN CREEK	7180	5/14	36	12.2	-	-
BATTLE RIDGE	6020	5/12	0	.0	-	-
BLACK BEAR	7950	5/14	93	49.8	44.9	-
BLACK BEAR PILLOW	7950	5/14	SP	44.6	41.6	-
BLACK PINE	7100	5/13	35	15.0	20.0	9.7
BLACK PINE PILLOW	7100	5/13	SP	18.1	23.4	10.8
BLUE LAKE	5900	5/16	48	23.2	38.3	-
BOTS SOTS	8000	5/13	18	7.2	17.0	-
BRIDGER BOWL	7250	5/12	69	31.7	36.2	31.9
BRIDGER BOWL PILLOW	7250	5/12	SP	32.2	35.1	30.1
BRISTOW CREEK	3900	5/12	0	.0	.0	-
CAMP MISERY	6400	5/15	45	451.0	54.5	-
CAMP SENIA	7890	5/13	30	10.6	16.6	8.3
CARROT BASIN	9000	5/13	100	45.9	51.0	-
CARROT BASIN PILLOW	9000	5/13	SP	36.8	31.4	-
CEDAR GROVE	4100	5/11	0	.0	7.7	1.7
COLE CREEK	7850	5/14	58	24.1	31.9	-
COLE CREEK PILLOW	7850	5/14	SP	22.6	29.9	-
COMBINATION	5600	5/13	0	.0	7.0	-
COMBINATION PILLOW	5600	5/13	SP	.0	6.3	-
COOKE STATION	8150	5/12	59	26.8	27.4	17.9
COPPER MOUNTAIN	7700	5/15	17	6.2	24.0	8.4
DAVIS CREEK	5400	5/10	27	12.5	26.2	12.7
DEADMAN CREEK	6450	5/14	0	.0	14.4	6.2
DESERT MOUNTAIN	5600	5/14	0	.0	-	-
DEVILS SLIDE	8100	5/13	73	30.8	37.2	28.0
DISCOVERY BASIN	7050	5/12	20	8.0	21.1	-
EAST BOULDER S	9250	5/17	87	42.0A	48.5	-
FISH CREEK	8000	5/14	44	16.2	-	-
FISHER CREEK	9100	5/12	117	53.5	51.6	36.2
FISHER CREEK PILLOW	9100	5/12	SP	46.6	44.7	37.8
GARVER CREEK	4250	5/10	0	.0	3.8	.0
GARVER CREEK PILLOW	4250	5/10	SP	.0	4.1	-
GIBBONS PASS	7100	5/15	44	24.1	37.0	19.3
GRAVE CREEK	4300	5/13	11	4.8	11.4	9.2
GRAVE CREEK PILLOW	4300	5/13	SP	.0	-	-
GRIZZLY PEAK	8400	5/14	59	22.9	31.2	-
GUNSIGHT LAKE	6300	5/16	83	43.8	48.0	-
HAWKINS LAKE	6450	5/10	72	34.1	39.0	30.4
HAWKINS LAKE PILLOW	6450	5/10	SP	36.8	33.0	30.6
HELL ROARING DIVIDE	5770	5/17	38	18.8	29.7	26.7

Average based On 1958-72 period. A - Aerial observation; water content estimated.
SP - Snow Pillow observation; water content only.

UNITED STATES DEPARTMENT OF AGRICULTURE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
HOOD MEADOW	6600	5/13	29	11.9	18.8	7.5
HOODOO BASIN PILLOW	6000	5/14	SP	44.6	55.5	50.4
INTERGAARD	6450	5/15	21	7.8	19.7	-
KINGS HILL	7500	5/14	36	13.6	22.4	-
LICK CREEK	6860	5/13	16	7.0	17.3	7.0
LICK CREEK PILLOW	6860	5/13	SP	5.1	16.0	6.0
LOOKOUT (ID)	5250	5/14	54	24.8	41.0	30.9
LOST HORSE	5940	5/16	78	39.5	45.1	30.7
LOST SOUL	4800	5/12	0	.0	8.6	.8
LUBRECHT FOREST # 3	5450	5/14	0	.0	-	-
MADISON PLATEAU	7750	5/14	55	28.2	28.6	-
MADISON PLATEAU PILLOW	7750	5/14	SP	26.6	26.4	18.6
MAYNARD CREEK	6210	5/12	22	10.4	21.5	16.3
MAYNARD CREEK PILLOW	6210	5/12	SP	13.3	16.2	12.1
MOUNT LOCKHART	6400	5/14	51	23.0	-	-
MOUNT LOCKHART PILLOW	6400	5/14	SP	25.9	-	-
NOISY BASIN	6040	5/15	81	40.9	53.6	-
NOISY BASIN PILLOW	6040	5/15	SP	35.4	41.5	-
NOISY CREEK	5600	5/14	0	.0	-	-
NORTH FK. ELK CREEK	6250	5/18	0	.0	22.4	-
NORTH FORK JOCKO	6330	5/14	82	42.4	54.2	45.7
NORTHEAST ENTRANCE	7400	5/12	18	7.4	11.8	3.8
NORTHEAST ENTRANCE PILL.	7400	5/12	SP	8.9	11.2	3.7
PETERSON MEADOWS	7200	5/17	34	13.7	22.9	-
PETERSON MEADOWS PILLOW	7200	5/17	SP	16.6	-	-
PICKET PIN D	9450	5/17	81	39.0	47.5	-
PLACER BASIN F	8800	5/17	63	29.5A	33.5	-
POORMAN CREEK	5100	5/11	49	23.9	34.7	23.4
POORMAN CREEK PILLOW	5100	5/11	SP	24.5	32.8	23.4
RED MOUNTAIN	6000	5/14	25	10.1	20.9	17.2
ROCKER PEAK	8000	5/13	48	19.2	29.0	16.7
ROCKER PEAK PILLOW	8000	5/13	SP	22.8	28.8	19.3
SADDLE MOUNTAIN	7940	5/15	70	40.3	41.6	27.2
SADDLE MOUNTAIN PILLOW	7940	5/15	SP	33.0	39.0	28.6
SHOWER FALLS	8100	5/13	74	31.6	41.4	31.3
SHOWER FALLS PILLOW	8100	5/13	SP	34.4	39.4	30.8
SILVER RUN	6630	5/13	0	.0	11.2	-
SLAG-A-MELT LAKE	8750	5/12	63	29.6	-	-
SPOTTED BEAR MOUNTAIN	7000	5/13	0	.0	15.0	-
SPUR PARK	8000	5/14	52	19.9	29.4	24.9
SPUR PARK PILLOW	8100	5/14	SP	22.9	26.1	24.3
STAHL PEAK	6050	5/13	76	39.8	42.5	39.0
STAHL PEAK PILLOW	6050	5/13	SP	30.0	-	-
STAR LAKE E	9650	5/17	111	54.5A	59.5	-
STUART MOUNTAIN	7400	5/14	62	30.3	40.6	31.2
TIMBERLINE CREEK	8850	5/13	60	21.8	29.8	18.8
TRINKUS LAKE	6100	5/16	57	30.8	50.9	-
TV MOUNTAIN	6800	5/14	43	18.6	28.9	18.5
TWELVEMILE CREEK	5600	5/16	11	5.6	26.6	6.6
TWELVEMILE CREEK PILLOW	5600	5/16	SP	5.7	22.5	4.6

Average based On 1958-72 period. A - Aeriol observotion; water content estimated.
SP - Snow Pillow observation; woter content only.

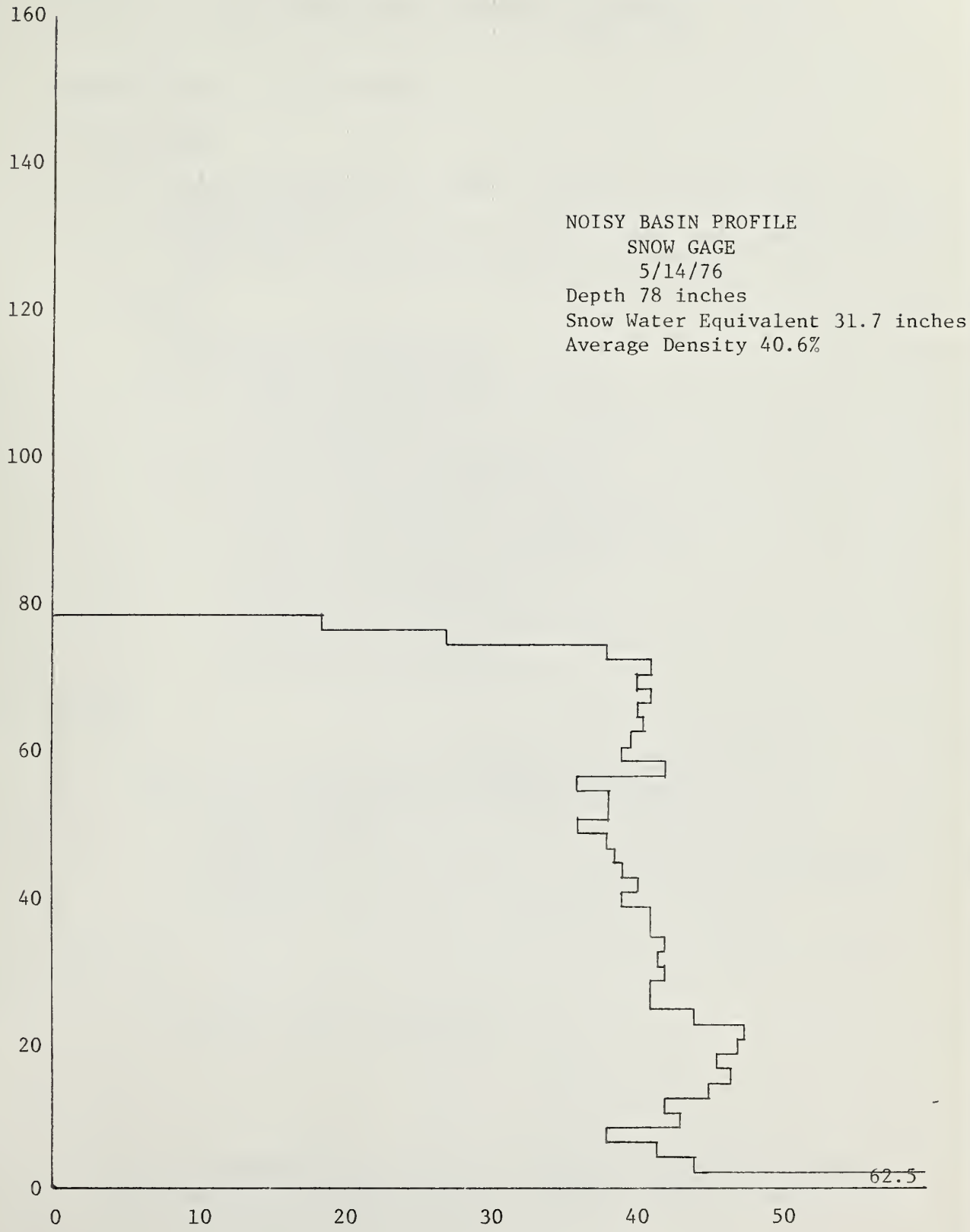
UNITED STATES DEPARTMENT OF AGRICULTURE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average
TWIN CREEKS	3580	5/16	0	.0	.0	-
TWIN LAKES	6510	5/16	97	48.6	56.8	42.2
TWIN LAKES PILLOW	6400	5/16	SP	48.2	51.0	39.9
UPPER HOLLAND LAKE	6200	5/17	66	30.6	44.4	-
WALDRON	5600	5/14	0	.0	-	-
WALDRON PILLOW	5600	5/14	SP	.5	10.3	5.0
WEASEL DIVIDE	5450	5/13	59	27.9	35.8	32.6
WEST YELLOWSTONE PILLOW	6700	5/14	SP	3.0	5.2	1.9
WHISKEY CREEK	6800	5/14	31	16.3	21.5	-
WHISKEY CREEK PILLOW	6800	5/14	SP	16.1	16.0	-
WHITE MILL	8700	5/12	87	38.8	36.8	29.3
WHITE MILL PILLOW	8700	5/12	SP	31.9	31.8	-
WILLOW CREEK	6500	5/14	0	.0	13.0	-
LATE ARRIVING DATA						
PICKET PIN LOWER	6200	5/18	0	.0	.0	-
PICKET PIN MIDDLE	7250	5/18	10	5.5	24.3	-
PICKET PIN UPPER	8100	5/18	74	33.9	36.3	-

Average based On 1958-72 period. A - Aeriol observotion; woter content estimoted.
SP - Snow Pillow observotion; woter content only.

UNITED STATES DEPARTMENT OF AGRICULTURE



NOISY BASIN PROFILE
SNOW GAGE
5/14/76
Depth 78 inches
Snow Water Equivalent 31.7 inches
Average Density 40.6%

UNITED STATES DEPARTMENT OF AGRICULTURE

Agencies and Organizations Cooperating in Montana Snow Surveys

GOVERNMENT AGENCIES

Canada:

Water Survey of Canada, Calgary, Department of the Environment
Water Resources Service, Department of Lands, Forests and Water Resources, British Columbia

Federal:

Department of the Army
    Corps of Engineers
U.S. Department of Agriculture
    Forest Service
    Soil Conservation Service
U.S. Department of Commerce
    NOAA, National Weather Service
U.S. Department of the Interior
    Bonneville Power Administration
    Bureau of Indian Affairs
    Bureau of Reclamation
    Fish and Wildlife Service
    Geological Survey
    National Park Service

STATE

Montana Association of Conservation Districts
Montana Department of Fish and Game
Montana Department of Natural Resources and Conservation
Montana State University - Agricultural Experiment Station
University of Montana - School of Forestry

PRIVATE

Montana Power Company

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
P.O. Box 98
BOZEMAN, MONTANA 59715

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